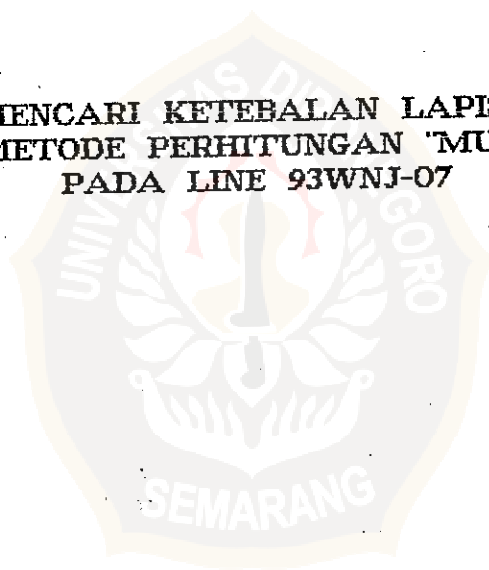


LAMPIRAN A

PENGOLAHAN DATA

**CONTOH MENCARI KETEBALAN LAPISAN LAPUK
DENGAN METODE PERHITUNGAN "MULTI-LAYER"
PADA LINE 93WNJ-07**



LINE 93WNJ-07

1. Untuk SP no. 1031 WZ dan Refraksi

Dari pembacaan data lapangan, kemudian dibuat T-X Curve, dan diperoleh :

$$Ti1 = 14,5 \text{ milli second} = 0,0145 \text{ second}$$

$$Ti2 = 16,0 \text{ milli second} = 0,0160 \text{ second}$$

$$Ti3 = 18,0 \text{ milli second} = 0,0180 \text{ second}$$

$$V1 = \frac{1 \text{ m}}{16 \text{ milli sec}} = \frac{1000 \text{ m}}{16 \text{ sec}} = 62,5 \frac{\text{m}}{\text{sec}} = 63 \text{ m/s}$$

$$V2 = \frac{5 \text{ m}}{10 \text{ milli sec}} = \frac{5 \times 1000}{10} \frac{\text{m}}{\text{sec}} = 500 \text{ m/s}$$

$$V3 = \frac{9 \text{ m}}{9,3 \text{ milli sec}} = \frac{9 \times 1000}{9,3} \frac{\text{m}}{\text{sec}} = 967,74 \text{ m/s}$$

$$V4 = \frac{10 \text{ m}}{6 \text{ milli sec}} = \frac{10 \times 1000}{6} \frac{\text{m}}{\text{sec}} = 1666,66 \text{ m/s}$$

$$V4 = 1667 \text{ m/s}$$

Ditentukan kedalaman "source" untuk survey WZ dan Refraksi adalah 2 meter, sehingga untuk : $T_{\text{charge}} = \frac{2 \text{ m}}{V1 \text{ m/s}}$

$$\text{Jadi : } T_{\text{charge}} = \frac{2 \text{ m}}{63 \text{ m/s}} = 0,032 \text{ s}$$

Perhitungan mencari Tw1, Tw2, Tw3 :

$$Tw1 = \frac{Ti1 + T_{\text{charge}}}{2 \sqrt{1 - \left(\frac{V1}{V2}\right)^2}}$$

$$Tw1 = \frac{0,0145 + 0,032}{2 \sqrt{1 - \left(\frac{63}{500}\right)^2}} = \frac{0,0465}{1,984060483} = 0,023436786... = 0,023 \text{ s}$$

$$Tw2 = \left\{ (Ti2 + T_{\text{charge}}) - (2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{V1}{V3}\right)^2}) \right\} \frac{1}{2 \sqrt{1 - \left(\frac{V2}{V3}\right)^2}}$$

$$\begin{aligned}
 Tw2 &= \left\{ (0,016+0,032) - \left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{63}{968}\right)^2} \right) \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{500}{968}\right)^2}} \\
 &= (0,048 - 0,046774193) \times 0,583928143 \\
 &= (0,001225807 \times 0,583928143) = 0,000715783 = 0,001 \text{ s}
 \end{aligned}$$

$$\begin{aligned}
 Tw3 &= \left\{ [Ti3 + T \text{ charge}] - \left[\left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{V1}{V4}\right)^2} \right) + \right. \right. \\
 &\quad \left. \left. + \left(2 \cdot Tw2 \cdot \sqrt{1 - \left(\frac{V2}{V4}\right)^2} \right) \right] \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{V3}{V4}\right)^2}}
 \end{aligned}$$

$$\begin{aligned}
 Tw3 &= \left\{ [0,018+0,032] - \left[\left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{63}{1667}\right)^2} \right) + \right. \right. \\
 &\quad \left. \left. + \left(2 \cdot Tw2 \cdot \sqrt{1 - \left(\frac{500}{1667}\right)^2} \right) \right] \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{968}{1667}\right)^2}}
 \end{aligned}$$

$$\begin{aligned}
 Tw3 &= \{ [0,05] - [(0,046840086 + 0,001365654)] \} \times 0,614153182 \\
 &= [0,05 - 0,04820574] \times 0,614153182 \\
 &= 0,00179426 \times 0,614153182 \\
 &= 0,00110195 = 0,001 \text{ s}
 \end{aligned}$$

Perhitungan Mencari Dw1, Dw2, Dw3 :

$$Dw1 = Tw1 \times V1 = 0,023436786 \times 63 = 1,476517488 = 1,47 \text{ m}$$

$$Dw2 = Tw2 \times V2 = 0,000715783 \times 500 = 0,35789 \text{ m} = 0,358 \text{ m}$$

$$Dw3 = Tw3 \times V3 = 0,00110195 \times 968 = 1,0666876 \text{ m} = 1,067 \text{ m}$$

Mencari STw dan SDw :

$$STw = Tw1 + Tw2 + Tw3 = [0,023 + 0,001 + 0,001] s = 0,025 s$$

$$\text{Jadi waktu weathering (Tw)} = 0,025 s$$

$$SDw = Dw1 + Dw2 + Dw3 = (1,47 + 0,358 + 1,067) s = 2,895 s$$

Jadi ketebalan lapisan lapuk untuk line 93WNJ-07 pada SP1301

$$\text{WZ dan SP1301 Ref adalah, } Dw = 2,895 m$$

2. Untuk SP1081 WZ dan Ref

Dari pembacaan data lapangan, kemudian dibuat T-X Curve,
dan diperoleh :

$$Ti1 = 24 \text{ milli second} = 0,0240 s$$

$$Ti2 = 28 \text{ milli second} = 0,0280 s$$

$$Ti3 = 30 \text{ milli second} = 0,0300 s$$

$$V1 = \frac{0,5}{13,5} \frac{m}{\text{milli sec}} = \frac{0,5 \times 1000}{13,5} \frac{m}{s} = 37,037 \text{ m/s} = 37 \text{ m/s}$$

$$V2 = \frac{5 \text{ meter}}{12 \text{ milli sec}} = \frac{5 \times 1000}{12} \text{ m/s} = 416 \text{ m/s}$$

$$V3 = \frac{5 \text{ meter}}{5 \text{ milli sec}} = \frac{5 \times 1000}{5} = 1000 \text{ m/s}$$

$$V4 = \frac{10 \text{ meter}}{6,33 \text{ milli sec}} = \frac{10 \times 1000}{6,33} \text{ m/s} = 1579 \text{ m/s}$$

$$\text{Untuk } T \text{ charge} = \frac{2 \text{ m}}{V1} = \frac{2 \text{ m}}{37 \text{ m/s}} = 0,054 \text{ second}$$

Perhitungan mencari Tw1 , Tw2 , Tw3 :

$$Tw1 = \frac{Ti1 + T \text{ charge}}{2 \sqrt{1 - \left(\frac{V1}{V2}\right)^2}}$$

$$Tw1 = \frac{0,024 + 0,054}{2 \sqrt{1 - \left(\frac{37}{416}\right)^2}} = \frac{0,078}{1.992073559} = 0,039155181 = 0,039 \text{ s}$$

$$Tw2 = \left\{ (Ti2 + T \text{ charge}) - \left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{V1}{V3}\right)^2} \right) \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{V2}{V3}\right)^2}}$$

$$Tw2 = \left\{ (0,082 + 0,054) - \left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{37}{1000}\right)^2} \right) \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{416}{1000}\right)^2}}$$

$$\begin{aligned} Tw2 &= \left\{ (0,082) - (0,07825674) \right\} \times 0,549834459 \\ &= 0,00374326 \times 0,549834459 \\ &= 0,002058173 \text{ s} \\ &= 0,002 \text{ s} \end{aligned}$$

$$\begin{aligned} Tw3 &= \left\{ (Ti3 + T \text{ charge}) - \left[\left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{V1}{V4}\right)^2} \right) + \right. \right. \\ &\quad \left. \left. + \left(2 \cdot Tw2 \cdot \sqrt{1 - \left(\frac{V2}{V4}\right)^2} \right) \right] \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{V3}{V4}\right)^2}} \end{aligned}$$

$$\begin{aligned} Tw3 &= \left\{ (0,03 + 0,054) - \left[\left(2 \cdot Tw1 \cdot \sqrt{1 - \left(\frac{37}{1579}\right)^2} \right) + \right. \right. \\ &\quad \left. \left. + \left(2 \cdot Tw2 \cdot \sqrt{1 - \left(\frac{416}{1579}\right)^2} \right) \right] \right\} \times \frac{1}{2 \sqrt{1 - \left(\frac{1000}{1579}\right)^2}} \end{aligned}$$

$$\begin{aligned} Tw3 &= \left\{ (0,084) - (0,07828886 + 0,003970919) \right\} \times 0,646081315 \\ &= (0,001740221 \times 0,646081315) \\ &= 0,001124324 \text{ s} = 0,001 \text{ s} \end{aligned}$$

Perhitungan Mencari Dw1 , Dw2 , Dw3 :

$$Dw1 = Tw1 \times V1$$

$$Dw1 = 0,039155181 \times 37 = 1,448741697 = 1,450 \text{ m}$$

$$Dw2 = Tw2 \times V2$$

$$Dw2 = 0,002058173 \times 416 = 0,856199968 = 0,856 \text{ m}$$

$$Dw3 = Tw3 \times V3$$

$$Dw3 = 0,001124324 \times 1000 = 1.124324 = 1,124 \text{ m}$$

Mencari STw dan SDw :

$$STw = Tw1 + Tw2 + Tw3$$

$$STw = 0,039 + 0,002 + 0,001 = 0,042 \text{ s}$$

$$\text{Jadi waktu weathering (Tw) = 0,042 second}$$

$$SDw = Dw1 + Dw2 + Dw3$$

$$SDw = 1,450 + 0,856 + 1,124 = 3,430 \text{ m}$$

Jadi ketebalan lapisan lapuk.pada line 93WNJ-07 untuk

SP1081 WZ dan Refraksi adalah , Dw = 3,430 m

3. Untuk SP no.1056 Refraksi

Dari pembacaan data lapangan , dibuat T-X Curve, kemudian diperoleh :

$$Ti1 = 17 \text{ milli second} = 0,0170 \text{ s}$$

$$V2 = \frac{10 \text{ meter}}{6 \text{ milli second}} = \frac{10 \times 1000}{6} \text{ m/s} = 1667 \text{ m/}$$

V1 , dicari dengan interpolasi, antara survey WZ dan Refraksi, yaitu pada SP1031 dengan SP1081 , sebagai berikut dibawah ini :

Dari SP1031 sampai SP1081 ada 50 titik SP .

$$\text{Pada SP1031 didapat } V_w = \frac{SD_w}{ST_w} = \frac{2,894...}{0,025...} = 115,156 \text{ m/s}$$

$$\text{Pada SP1081 didapat } V_w = \frac{SD_w}{ST_w} = \frac{3,430...}{0,042...} = 80,969 \text{ m/s}$$

Jadi selisih V_w pada SP1031 dengan V_w pada SP1081 :

$$(115,156 - 80,969) \text{ m/s} = 34,187 \text{ m/s.}$$

Sehingga increament tiap titik adalah :

$$\frac{34,187}{49} = 0,697693878...$$

Akhirnya dengan interpolasi tersebut tiap titik SP, harga V_n dapat diketahui ($V_n = V_w$) :

$$\text{SP1031} = 115,156 \text{ m/s}$$

$$\text{SP1032} = 115,156 - (0,697693878...)$$

⋮

$$\begin{aligned} \text{SP1044} &= 115,156 - [13 \times (0,697693878...)] \\ &= 115,156 - (9,070020414...) = 106,267 \text{ m/s} \end{aligned}$$

$$\text{Jadi } V_w = 106,267 \text{ m/s dan } V_1 = 106 \text{ m/s}$$

⋮

$$\begin{aligned} \text{SP1056} &= 115,156 - [25 \times (0,697693878...)] \\ &= 115,156 - (17,44234695...) = 98,062 \end{aligned}$$

$$\text{Jadi } V_w = 98,062 \text{ dan } V_1 = 98 \text{ m/s}$$

⋮

$$\begin{aligned} \text{SP1069} &= 115,156 - [38 \times (0,697693878...)] \\ &= 115,156 - (26,51236736...) = 89,174 \text{ m/s} \end{aligned}$$

$$\text{Jadi } V_w = 89,174 \text{ dan } V_1 = 89 \text{ m/s}$$

⋮

SP1094 , dicari juga dengan cara interpolasi antar SP WZ dan Refraksi . Yaitu antara SP1081 dengan SP1131

Begitu seterusnya untuk tiap-tiap nomor SP yang belum diketahui V_1 , dicari dengan jalan interpolasi antar no.SP WZ & Refraksi dalam satu lintasan seismik (line).

Mencari T_{w1} dan D_{w1} pada SP1056 :

$$T_{w1} = \frac{(0,0170 + 0,032)}{2 \sqrt{1 - \left(\frac{98}{1667}\right)^2}} = \frac{0,049}{1,996540951} = 0,024542447 \text{ s}$$

$$T_{w1} = 0,024 \text{ s}$$

$$\text{Jadi waktu weathering } ST_w = T_{w1} = 0,024 \text{ s}$$

$$D_{w1} = T_{w1} \times V_1 = 0,024542447 \times 98 = 2,40 \text{ m}$$

Jadi ketebalan lapisan lapuk pada line 93WNJ-07 untuk SP1056 adalah $D_w = S_{Dw} = D_{w1} = 2,40 \text{ m}$

4. Untuk SP no.1044 Refraksi

$$T_{i1} = 0,0180 \text{ s}$$

$$T \text{ charge} = 0,032 \text{ s (sesuai dengan hasil survey WZ \& Ref pada SP1031)}$$

$$V_1 = 106 \text{ m/s (didapat dari interpolasi)}$$

$$V_2 = 1667 \text{ m/s}$$

Maka,

$$T_{w1} = \frac{(0,018 + 0,032)}{2 \sqrt{1 - \left(\frac{106}{1667}\right)^2}} = \frac{0,050}{1,995952562} = 0,025050696$$

$$T_{w1} = 0,025 \text{ s}$$

$$Dw1 = Tw1 \times V1 = 0,025050696 \times 106 = 2,65 \text{ m}$$

$$\text{Jadi waktu weathering } Tw = Tw1 = 0,025 \text{ s}$$

dan ketebalan lapisan lapuk pada line 93WNJ-07 untuk SP no.1044 adalah $Dw = Dw1 = 2,65 \text{ m}$

5. Untuk SP no.1069 Refraksi

$$Ti1 = 0,0190 \text{ s}$$

$$T \text{ charge} = 0,032 \text{ s} \text{ (sesuai pada hasil survey WZ \& Ref pada SP no.1031)}$$

$$V1 = 89 \text{ m/s} \text{ (didapat dari interpolasi)}$$

$$V2 = 1667 \text{ m/s}$$

Maka,

$$Tw1 = \frac{(0,019 + 0,032)}{2 \sqrt{1 - \left(\frac{89}{1667}\right)^2}} = \frac{0,051}{1,997147546}$$

$$Tw1 = 0,025536421 \text{ s} = 0,025 \text{ s}$$

$$\text{Jadi waktu weathering } Tw = 0,025 \text{ s}$$

$$Dw1 = Tw1 \times V1 = 0,025536421 \times 89 = 2,27 \text{ m}$$

$$\text{Jadi ketebalan laisan lapuk } Dw = 2,27 \text{ m}$$

Jadi untuk survey refraksi saja , yang diketahui hanya V1 dan V2. Dan hanya ada satu Time Intercept (Ti1), sehingga hanya Tw1 dan Dw1 saja yang dapat dicari . Untuk lebih jelasnya dapat dilihat pada rumus perhitungan Multi-Layer.

Begitu seterusnya untuk tiap-tiap no.SP , cara mencari ketebalan lapisan lapuk dalam masing-masing lintasan, sama seperti di atas (line 93WNJ-07, dari nomer 1-5).

LAMPIRAN B

HASIL PENGOLAHAN DATA

- | | |
|------------------|-------------------|
| 1. LINE 93WNJ-01 | 6. LINE 93WNJ-11 |
| 2. LINE 93WNJ-03 | 7. LINE 93WNJ-13 |
| 3. LINE 93WNJ-05 | 8. LINE 93WNJ-15 |
| 4. LINE 93WNJ-07 | 9. LINE 93WNJ-57 |
| 5. LINE 93WNJ-09 | 10. LINE 93WNJ-59 |



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217 : 92-15-03

SP.NO.	W	V	71	72	73	74	WSP	Range	U	T(s)	33(s)	34(s)	35(s)	36(s)	37(s)	38(s)	39(s)	40(s)	41(s)	42(s)	43(s)	44(s)	45(s)	46(s)	47(s)	48(s)	49(s)	50(s)	51(s)	52(s)	53(s)	54(s)	55(s)	56(s)	57(s)	58(s)	59(s)	60(s)	61(s)	62(s)	63(s)	64(s)	65(s)	66(s)	67(s)	68(s)	69(s)	70(s)	71(s)	72(s)	73(s)	74(s)	75(s)	76(s)	77(s)	78(s)	79(s)	80(s)	81(s)	82(s)	83(s)	84(s)	85(s)	86(s)	87(s)	88(s)	89(s)	90(s)	91(s)	92(s)	93(s)	94(s)	95(s)	96(s)	97(s)	98(s)	99(s)	100(s)	101(s)	102(s)	103(s)	104(s)	105(s)	106(s)	107(s)	108(s)	109(s)	110(s)	111(s)	112(s)	113(s)	114(s)	115(s)	116(s)	117(s)	118(s)	119(s)	120(s)	121(s)	122(s)	123(s)	124(s)	125(s)	126(s)	127(s)	128(s)	129(s)	130(s)	131(s)	132(s)	133(s)	134(s)	135(s)	136(s)	137(s)	138(s)	139(s)	140(s)	141(s)	142(s)	143(s)	144(s)	145(s)	146(s)	147(s)	148(s)	149(s)	150(s)	151(s)	152(s)	153(s)	154(s)	155(s)	156(s)	157(s)	158(s)	159(s)	160(s)	161(s)	162(s)	163(s)	164(s)	165(s)	166(s)	167(s)	168(s)	169(s)	170(s)	171(s)	172(s)	173(s)	174(s)	175(s)	176(s)	177(s)	178(s)	179(s)	180(s)	181(s)	182(s)	183(s)	184(s)	185(s)	186(s)	187(s)	188(s)	189(s)	190(s)	191(s)	192(s)	193(s)	194(s)	195(s)	196(s)	197(s)	198(s)	199(s)	200(s)	201(s)	202(s)	203(s)	204(s)	205(s)	206(s)	207(s)	208(s)	209(s)	210(s)	211(s)	212(s)	213(s)	214(s)	215(s)	216(s)	217(s)	218(s)	219(s)	220(s)	221(s)	222(s)	223(s)	224(s)	225(s)	226(s)	227(s)	228(s)	229(s)	230(s)	231(s)	232(s)	233(s)	234(s)	235(s)	236(s)	237(s)	238(s)	239(s)	240(s)	241(s)	242(s)	243(s)	244(s)	245(s)	246(s)	247(s)	248(s)	249(s)	250(s)	251(s)	252(s)	253(s)	254(s)	255(s)	256(s)	257(s)	258(s)	259(s)	260(s)	261(s)	262(s)	263(s)	264(s)	265(s)	266(s)	267(s)	268(s)	269(s)	270(s)	271(s)	272(s)	273(s)	274(s)	275(s)	276(s)	277(s)	278(s)	279(s)	280(s)	281(s)	282(s)	283(s)	284(s)	285(s)	286(s)	287(s)	288(s)	289(s)	290(s)	291(s)	292(s)	293(s)	294(s)	295(s)	296(s)	297(s)	298(s)	299(s)	300(s)	301(s)	302(s)	303(s)	304(s)	305(s)	306(s)	307(s)	308(s)	309(s)	310(s)	311(s)	312(s)	313(s)	314(s)	315(s)	316(s)	317(s)	318(s)	319(s)	320(s)	321(s)	322(s)	323(s)	324(s)	325(s)	326(s)	327(s)	328(s)	329(s)	330(s)	331(s)	332(s)	333(s)	334(s)	335(s)	336(s)	337(s)	338(s)	339(s)	340(s)	341(s)	342(s)	343(s)	344(s)	345(s)	346(s)	347(s)	348(s)	349(s)	350(s)	351(s)	352(s)	353(s)	354(s)	355(s)	356(s)	357(s)	358(s)	359(s)	360(s)	361(s)	362(s)	363(s)	364(s)	365(s)	366(s)	367(s)	368(s)	369(s)	370(s)	371(s)	372(s)	373(s)	374(s)	375(s)	376(s)	377(s)	378(s)	379(s)	380(s)	381(s)	382(s)	383(s)	384(s)	385(s)	386(s)	387(s)	388(s)	389(s)	390(s)	391(s)	392(s)	393(s)	394(s)	395(s)	396(s)	397(s)	398(s)	399(s)	400(s)	401(s)	402(s)	403(s)	404(s)	405(s)	406(s)	407(s)	408(s)	409(s)	410(s)	411(s)	412(s)	413(s)	414(s)	415(s)	416(s)	417(s)	418(s)	419(s)	420(s)	421(s)	422(s)	423(s)	424(s)	425(s)	426(s)	427(s)	428(s)	429(s)	430(s)	431(s)	432(s)	433(s)	434(s)	435(s)	436(s)	437(s)	438(s)	439(s)	440(s)	441(s)	442(s)	443(s)	444(s)	445(s)	446(s)	447(s)	448(s)	449(s)	450(s)	451(s)	452(s)	453(s)	454(s)	455(s)	456(s)	457(s)	458(s)	459(s)	460(s)	461(s)	462(s)	463(s)	464(s)	465(s)	466(s)	467(s)	468(s)	469(s)	470(s)	471(s)	472(s)	473(s)	474(s)	475(s)	476(s)	477(s)	478(s)	479(s)	480(s)	481(s)	482(s)	483(s)	484(s)	485(s)	486(s)	487(s)	488(s)	489(s)	490(s)	491(s)	492(s)	493(s)	494(s)	495(s)	496(s)	497(s)	498(s)	499(s)	500(s)	501(s)	502(s)	503(s)	504(s)	505(s)	506(s)	507(s)	508(s)	509(s)	510(s)	511(s)	512(s)	513(s)	514(s)	515(s)	516(s)	517(s)	518(s)	519(s)	520(s)	521(s)	522(s)	523(s)	524(s)	525(s)	526(s)	527(s)	528(s)	529(s)	530(s)	531(s)	532(s)	533(s)	534(s)	535(s)	536(s)	537(s)	538(s)	539(s)	540(s)	541(s)	542(s)	543(s)	544(s)	545(s)	546(s)	547(s)	548(s)	549(s)	550(s)	551(s)	552(s)	553(s)	554(s)	555(s)	556(s)	557(s)	558(s)	559(s)	560(s)	561(s)	562(s)	563(s)	564(s)	565(s)	566(s)	567(s)	568(s)	569(s)	570(s)	571(s)	572(s)	573(s)	574(s)	575(s)	576(s)	577(s)	578(s)	579(s)	580(s)	581(s)	582(s)	583(s)	584(s)	585(s)	586(s)	587(s)	588(s)	589(s)	590(s)	591(s)	592(s)	593(s)	594(s)	595(s)	596(s)	597(s)	598(s)	599(s)	600(s)	601(s)	602(s)	603(s)	604(s)	605(s)	606(s)	607(s)	608(s)	609(s)	610(s)	611(s)	612(s)	613(s)	614(s)	615(s)	616(s)	617(s)	618(s)	619(s)	620(s)	621(s)	622(s)	623(s)	624(s)	625(s)	626(s)	627(s)	628(s)	629(s)	630(s)	631(s)	632(s)	633(s)	634(s)	635(s)	636(s)	637(s)	638(s)	639(s)	640(s)	641(s)	642(s)	643(s)	644(s)	645(s)	646(s)	647(s)	648(s)	649(s)	650(s)	651(s)	652(s)	653(s)	654(s)	655(s)	656(s)	657(s)	658(s)	659(s)	660(s)	661(s)	662(s)	663(s)	664(s)	665(s)	666(s)	667(s)	668(s)	669(s)	670(s)	671(s)	672(s)	673(s)	674(s)	675(s)	676(s)	677(s)	678(s)	679(s)	680(s)	681(s)	682(s)	683(s)	684(s)	685(s)	686(s)	687(s)	688(s)	689(s)	690(s)	691(s)	692(s)	693(s)	694(s)	695(s)	696(s)	697(s)	698(s)	699(s)	700(s)	701(s)	702(s)	703(s)	704(s)	705(s)	706(s)	707(s)	708(s)	709(s)	710(s)	711(s)	712(s)	713(s)	714(s)	715(s)	716(s)	717(s)	718(s)	719(s)	720(s)	721(s)	722(s)	723(s)	724(s)	725(s)	726(s)	727(s)	728(s)	729(s)	730(s)	731(s)	732(s)	733(s)	734(s)	735(s)	736(s)	737(s)	738(s)	739(s)	740(s)	741(s)	742(s)	743(s)	744(s)	745(s)	746(s)	747(s)	748(s)	749(s)	750(s)	751(s)	752(s)	753(s)	754(s)	755(s)	756(s)	757(s)	758(s)	759(s)	760(s)	761(s)	762(s)	763(s)	764(s)	765(s)	766(s)	767(s)	768(s)	769(s)	770(s)	771(s)	772(s)	773(s)	774(s)	775(s)	776(s)	777(s)	778(s)	779(s)	780(s)	781(s)	782(s)	783(s)	784(s)	785(s)	786(s)	787(s)	788(s)	789(s)	790(s)	791(s)	792(s)	793(s)	794(s)	795(s)	796(s)	797(s)	798(s)	799(s)	800(s)	801(s)	802(s)	803(s)	804(s)	805(s)	806(s)	807(s)	808(s)	809(s)	810(s)	811(s)	812(s)	813(s)	814(s)	815(s)	816(s)	817(s)	818(s)	819(s)	820(s)	821(s)	822(s)	823(s)	824(s)	825(s)	826(s)	827(s)	828(s)	829(s)	830(s)	831(s)	832(s)	833(s)	834(s)	835(s)	836(s)	837(s)	838(s)	839(s)	840(s)	841(s)	842(s)	843(s)	844(s)	845(s)	846(s)	847(s)	848(s)	849(s)	850(s)	851(s)	852(s)	853(s)	854(s)	855(s)	856(s)	857(s)	858(s)	859(s)	860(s)	861(s)	862(s)	863(s)	864(s)	865(s)	866(s)	867(s)	868(s)	869(s)	870(s)	871(s)	872(s)	873(s)	874(s)	875(s)	876(s)	877(s)	878(s)	879(s)	880(s)	881(s)	882(s)	883(s)	884(s)	885(s)	886(s)	887(s)	888(s)	889(s)	890(s)	891(s)	892(s)	893(s)	894(s)	895(s)	896(s)	897(s)	898(s)	899(s)	900(s)	901(s)	902(s)	903(s)	904(s)	905(s)	906(s)	907(s)	908(s)	909(s)	910(s)	911(s)	912(s)	913(s)	914(s)	915(s)	916(s)	917(s)	918(s)	919(s)	920(s)	921(s)	922(s)	923(s)	924(s)	925(s)	926(s)	927(s)	928(s)	929(s)	930(s)	931(s)	932(s)	933(s)	934(s)	935(s)	936(s)	937(s)	938(s)	939(s)	940(s)	941(s)	942(s)	943(s)	944(s)	945(s)	946(s)	947(s)	948(s)	949(s)	950(s)	951(s)	952(s)	953(s)	954(s)	955(s)	956(s)	957(s)	958(s)	959(s)	960(s)	961(s)	962(s)	963(s)	964(s)	965(s)	966(s)	967(s)	968(s)	969(s)	970(s)	971(s)	972(s)	973(s)	974(s)	975(s)	976(s)	977(s)	978(s)	979(s)	980(s)	981(s)	982(s)	983(s)	984(s)	985(s)	986(s)	987(s)	988(s)	989(s)	990(s)	991(s)	992(s)	993(s)	994(s)	995(s)	996(s)	997(s)	998(s)	999(s)	1000(s)
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(MULTI-LAYER)

LINE : 93KJ-05

SP.NO	TV	V1	V2	V3	V4	V5x	Tcharge	T1	T2(s)	T3(s)	TW1(s)	TW2(s)	TW3(s)	DW1(E)	DW2(E)	DW3(E)	STV(s)	SDV(E)
1001	144.795	50	666	1111	1579	1579	0.040	0.019	0.021	0.025	0.030	0.001	0.002	1.479	0.788	2.516	0.033	4.783
1014	152.351	152	1579			1579	0.040	0.013			0.027			4.056			0.027	4.056
1026	159.326	159	1500			1538	0.040	0.016			0.028			4.486			0.028	4.486
1039	166.882	167	1579			1538	0.040	0.012			0.026			4.321			0.026	4.321
1051	173.856	50	526	1034	1667	1667	0.040	0.011	0.014	0.019	0.025	0.002	0.003	1.268	0.864	3.061	0.030	5.214
1064	160.402	160	1667			1667	0.040	0.016			0.028			4.472			0.028	4.472
1074	150.052	150	1579			1579	0.040	0.012			0.026			3.881			0.026	3.881
1087	136.597	137	1579			1579	0.040	0.016			0.028			3.805			0.028	3.805
1103	120.037	46	588	1111	1667	1667	0.043	0.020	0.023	0.026	0.032	0.002	0.001	1.453	1.164	1.583	0.035	4.200
1116	129.243	129	1667			1667	0.043	0.026			0.035			4.471			0.035	4.471
1126	136.325	136	1579			1579	0.043	0.021			0.032			4.377			0.032	4.377
1139	145.531	146	1579			1579	0.043	0.022			0.033			4.748			0.033	4.748
1145	149.780	45	588	1060	1667	1667	0.044	0.021	0.024	0.030	0.033	0.002	0.003	1.477	1.045	3.129	0.032	5.650
1158	155.674	156	1667			1667	0.044	0.017			0.031			4.765			0.031	4.765
1174	162.929	163	1667			1622	0.044	0.014			0.029			4.784			0.029	4.784
1187	168.823	169	1579			1622	0.044	0.012			0.028			4.750			0.028	4.750
1203	176.078	44	588	1000	1667	1667	0.045	0.018	0.020	0.027	0.032	0.001	0.004	1.389	0.685	4.478	0.037	6.552
1216	174.950	175	1667			1667	0.045	0.014			0.030			5.230			0.030	5.230
1226	174.083	174	1579			1579	0.045	0.023			0.034			5.951			0.034	5.951
1239	172.956	173	1579			1579	0.045	0.016			0.031			5.347			0.031	5.347
1245	172.435	47	666	1052	1579	1622	0.043	0.020	0.022	0.028	0.031	0.001	0.004	1.174	0.820	3.377	0.036	6.271
1258	205.522	206	1667			1622	0.043	0.016			0.030			6.063			0.030	6.063
1274	246.244	246	1667			1667	0.043	0.022			0.033			8.036			0.033	8.036
1287	229.331	279	1667			1667	0.043	0.022			0.033			9.145			0.033	9.145
1301	314.962	46	625	1111	1579	1622	0.043	0.020	0.022	0.037	0.032	0.001	0.010	1.464	0.522	11.585	0.043	13.571
1314	314.962	315	1667			1622	0.043	0.017			0.031			9.599			0.031	9.599

(MULTI-LAYER)

LINE : 93WJ-07

EXP.NO	VW	V1	V2	V3	V4	VSW	Charge	F1	F2(s)	F3(s)	F4(s)	F5(s)	F6(s)	DW1(s)	DW2(s)	DW3(s)	SDW(s)
11031	1115.156	63	500	966	1667	1667	0.032	0.0145	0.0160	0.0180	0.023	0.001	0.001	1.456	0.359	1.667	0.025
11034	1106.267	106	1667			1667	0.032	0.0160			0.025			2.649			0.025
11036	98.062	98	1667			1667	0.032	0.0170			0.024			2.394			0.024
11039	89.174	89	1667			1667	0.032	0.0190			0.025			2.266			0.025
11081	80.959	37	416	1866	1579	1622	0.034	0.0240	0.0280	0.0300	0.039	0.002	0.001	1.450	0.656	1.124	0.042
11094	88.757	89	1667			1622	0.034	0.0275			0.041			3.624			0.041
11206	95.945	96	1579			1622	0.034	0.0160			0.035			3.367			0.035
11219	103.733	104	1667			1622	0.034	0.0125			0.033			3.459			0.033
11231	110.921	55	250	1211	1667	1667	0.036	0.0125	0.0150	0.0170	0.035	0.001	0.001	1.377	0.171	1.450	0.027
11244	106.764	109	1667			1667	0.036	0.0125			0.024			2.663			0.024
11256	105.773	167	1667			1622	0.036	0.0205			0.028			3.042			0.028
11269	104.616	105	1579			1622	0.036	0.0245			0.025			7.666			0.025
11361	102.635	50	625	1134	1667	1622	0.040	0.0130	0.0145	0.0160	0.027	0.001	0.001	1.329	0.513	1.065	0.028
11394	106.494	106	1579			1622	0.040	0.0115			0.026			2.748			0.026
11208	1110.660	111	1667			1667	0.040	0.0160			0.029			3.305			0.029
11221	1114.529	115	1667			1667	0.040	0.0155			0.028			3.186			0.028
11231	1117.505	50	586	1111	1667	1667	0.040	0.0125	0.0150	0.0170	0.026	0.001	0.001	1.319	0.772	1.385	0.029
11244	1114.627	115	1667			1667	0.040	0.0175			0.029			3.303			0.029
11256	1111.970	112	1667			1667	0.040	0.0255			0.033			3.675			0.033
11269	1109.092	109	1667			1667	0.040	0.0175			0.029			3.143			0.029
11281	1105.435	50	416	1090	1667	1667	0.040	0.0150	0.0165	0.0195	0.028	0.001	0.001	1.385	0.277	1.538	0.030
11294	1119.049	119	1667			1667	0.040	0.0130			0.027			3.163			0.027
11306	1120.692	121	1667			1667	0.040	0.0145			0.027			3.572			0.027
11319	1123.386	143	1667			1667	0.040	0.0180			0.029			4.572			0.029
11331	1154.949	50	416	1090	1667	1667	0.040	0.0130	0.0150	0.0200	0.027	0.001	0.001	1.335	0.384	3.030	0.031
11344	1154.949	155	1667			1667	0.040	0.0130			0.027			4.124			0.027

MULTI-LAYER

LINE : 93WJ- 09

SP.NO	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17	Y18	Y19	Y20	Y21	Y22	Y23	Y24	Y25	Y26	Y27	Y28	Y29	Y30	Y31	Y32	Y33	Y34	Y35	Y36	Y37	Y38	Y39	Y40	Y41	Y42	Y43	Y44	Y45	Y46	Y47	Y48	Y49	Y50	Y51	Y52	Y53	Y54	Y55	Y56	Y57	Y58	Y59	Y60	Y61	Y62	Y63	Y64	Y65	Y66	Y67	Y68	Y69	Y70	Y71	Y72	Y73	Y74	Y75	Y76	Y77	Y78	Y79	Y80	Y81	Y82	Y83	Y84	Y85	Y86	Y87	Y88	Y89	Y90	Y91	Y92	Y93	Y94	Y95	Y96	Y97	Y98	Y99	Y100	Y101	Y102	Y103	Y104	Y105	Y106	Y107	Y108	Y109	Y110	Y111	Y112	Y113	Y114	Y115	Y116	Y117	Y118	Y119	Y120	Y121	Y122	Y123	Y124	Y125	Y126	Y127	Y128	Y129	Y130	Y131	Y132	Y133	Y134	Y135	Y136	Y137	Y138	Y139	Y140	Y141	Y142	Y143	Y144	Y145	Y146	Y147	Y148	Y149	Y150	Y151	Y152	Y153	Y154	Y155	Y156	Y157	Y158	Y159	Y160	Y161	Y162	Y163	Y164	Y165	Y166	Y167	Y168	Y169	Y170	Y171	Y172	Y173	Y174	Y175	Y176	Y177	Y178	Y179	Y180	Y181	Y182	Y183	Y184	Y185	Y186	Y187	Y188	Y189	Y190	Y191	Y192	Y193	Y194	Y195	Y196	Y197	Y198	Y199	Y200	Y201	Y202	Y203	Y204	Y205	Y206	Y207	Y208	Y209	Y210	Y211	Y212	Y213	Y214	Y215	Y216	Y217	Y218	Y219	Y220	Y221	Y222	Y223	Y224	Y225	Y226	Y227	Y228	Y229	Y230	Y231	Y232	Y233	Y234	Y235	Y236	Y237	Y238	Y239	Y240	Y241	Y242	Y243	Y244	Y245	Y246	Y247	Y248	Y249	Y250	Y251	Y252	Y253	Y254	Y255	Y256	Y257	Y258	Y259	Y260	Y261	Y262	Y263	Y264	Y265	Y266	Y267	Y268	Y269	Y270	Y271	Y272	Y273	Y274	Y275	Y276	Y277	Y278	Y279	Y280	Y281	Y282	Y283	Y284	Y285	Y286	Y287	Y288	Y289	Y290	Y291	Y292	Y293	Y294	Y295	Y296	Y297	Y298	Y299	Y300	Y301	Y302	Y303	Y304	Y305	Y306	Y307	Y308	Y309	Y310	Y311	Y312	Y313	Y314	Y315	Y316	Y317	Y318	Y319	Y320	Y321	Y322	Y323	Y324	Y325	Y326	Y327	Y328	Y329	Y330	Y331	Y332	Y333	Y334	Y335	Y336	Y337	Y338	Y339	Y340	Y341	Y342	Y343	Y344	Y345	Y346	Y347	Y348	Y349	Y350	Y351	Y352	Y353	Y354	Y355	Y356	Y357	Y358	Y359	Y360	Y361	Y362	Y363	Y364	Y365	Y366	Y367	Y368	Y369	Y370	Y371	Y372	Y373	Y374	Y375	Y376	Y377	Y378	Y379	Y380	Y381	Y382	Y383	Y384	Y385	Y386	Y387	Y388	Y389	Y390	Y391	Y392	Y393	Y394	Y395	Y396	Y397	Y398	Y399	Y400	Y401	Y402	Y403	Y404	Y405	Y406	Y407	Y408	Y409	Y410	Y411	Y412	Y413	Y414	Y415	Y416	Y417	Y418	Y419	Y420	Y421	Y422	Y423	Y424	Y425	Y426	Y427	Y428	Y429	Y430	Y431	Y432	Y433	Y434	Y435	Y436	Y437	Y438	Y439	Y440	Y441	Y442	Y443	Y444	Y445	Y446	Y447	Y448	Y449	Y450	Y451	Y452	Y453	Y454	Y455	Y456	Y457	Y458	Y459	Y460	Y461	Y462	Y463	Y464	Y465	Y466	Y467	Y468	Y469	Y470	Y471	Y472	Y473	Y474	Y475	Y476	Y477	Y478	Y479	Y480	Y481	Y482	Y483	Y484	Y485	Y486	Y487	Y488	Y489	Y490	Y491	Y492	Y493	Y494	Y495	Y496	Y497	Y498	Y499	Y500	Y501	Y502	Y503	Y504	Y505	Y506	Y507	Y508	Y509	Y510	Y511	Y512	Y513	Y514	Y515	Y516	Y517	Y518	Y519	Y520	Y521	Y522	Y523	Y524	Y525	Y526	Y527	Y528	Y529	Y530	Y531	Y532	Y533	Y534	Y535	Y536	Y537	Y538	Y539	Y540	Y541	Y542	Y543	Y544	Y545	Y546	Y547	Y548	Y549	Y550	Y551	Y552	Y553	Y554	Y555	Y556	Y557	Y558	Y559	Y560	Y561	Y562	Y563	Y564	Y565	Y566	Y567	Y568	Y569	Y570	Y571	Y572	Y573	Y574	Y575	Y576	Y577	Y578	Y579	Y580	Y581	Y582	Y583	Y584	Y585	Y586	Y587	Y588	Y589	Y590	Y591	Y592	Y593	Y594	Y595	Y596	Y597	Y598	Y599	Y600	Y601	Y602	Y603	Y604	Y605	Y606	Y607	Y608	Y609	Y610	Y611	Y612	Y613	Y614	Y615	Y616	Y617	Y618	Y619	Y620	Y621	Y622	Y623	Y624	Y625	Y626	Y627	Y628	Y629	Y630	Y631	Y632	Y633	Y634	Y635	Y636	Y637	Y638	Y639	Y640	Y641	Y642	Y643	Y644	Y645	Y646	Y647	Y648	Y649	Y650	Y651	Y652	Y653	Y654	Y655	Y656	Y657	Y658	Y659	Y660	Y661	Y662	Y663	Y664	Y665	Y666	Y667	Y668	Y669	Y670	Y671	Y672	Y673	Y674	Y675	Y676	Y677	Y678	Y679	Y680	Y681	Y682	Y683	Y684	Y685	Y686	Y687	Y688	Y689	Y690	Y691	Y692	Y693	Y694	Y695	Y696	Y697	Y698	Y699	Y700	Y701	Y702	Y703	Y704	Y705	Y706	Y707	Y708	Y709	Y710	Y711	Y712	Y713	Y714	Y715	Y716	Y717	Y718	Y719	Y720	Y721	Y722	Y723	Y724	Y725	Y726	Y727	Y728	Y729	Y730	Y731	Y732	Y733	Y734	Y735	Y736	Y737	Y738	Y739	Y740	Y741	Y742	Y743	Y744	Y745	Y746	Y747	Y748	Y749	Y750	Y751	Y752	Y753	Y754	Y755	Y756	Y757	Y758	Y759	Y760	Y761	Y762	Y763	Y764	Y765	Y766	Y767	Y768	Y769	Y770	Y771	Y772	Y773	Y774	Y775	Y776	Y777	Y778	Y779	Y780	Y781	Y782	Y783	Y784	Y785	Y786	Y787	Y788	Y789	Y790	Y791	Y792	Y793	Y794	Y795	Y796	Y797	Y798	Y799	Y800	Y801	Y802	Y803	Y804	Y805	Y806	Y807	Y808	Y809	Y810	Y811	Y812	Y813	Y814	Y815	Y816	Y817	Y818	Y819	Y820	Y821	Y822	Y823	Y824	Y825	Y826	Y827	Y828	Y829	Y830	Y831	Y832	Y833	Y834	Y835	Y836	Y837	Y838	Y839	Y840	Y841	Y842	Y843	Y844	Y845	Y846	Y847	Y848	Y849	Y850	Y851	Y852	Y853	Y854	Y855	Y856	Y857	Y858	Y859	Y860	Y861	Y862	Y863	Y864	Y865	Y866	Y867	Y868	Y869	Y870	Y871	Y872	Y873	Y874	Y875	Y876	Y877	Y878	Y879	Y880	Y881	Y882	Y883	Y884	Y885	Y886	Y887	Y888	Y889	Y890	Y891	Y892	Y893	Y894	Y895	Y896	Y897	Y898	Y899	Y900	Y901	Y902	Y903	Y904	Y905	Y906	Y907	Y908	Y909	Y910	Y911	Y912	Y913	Y914	Y915	Y916	Y917	Y918	Y919	Y920	Y921	Y922	Y923	Y924	Y925	Y926	Y927	Y928	Y929	Y930	Y931	Y932	Y933	Y934	Y935	Y936	Y937	Y938	Y939	Y940	Y941	Y942	Y943	Y944	Y945	Y946	Y947	Y948	Y949	Y950	Y951	Y952	Y953	Y954	Y955	Y956	Y957	Y958	Y959	Y960	Y961	Y962	Y963	Y964	Y965	Y966	Y967	Y968	Y969	Y970	Y971	Y972	Y973	Y974	Y975	Y976	Y977	Y978	Y979	Y980	Y981	Y982	Y983	Y984	Y985	Y986	Y987	Y988	Y989	Y990	Y991	Y992	Y993	Y994	Y995	Y996	Y997	Y998	Y999	Y1000	Y1001	Y1002	Y1003	Y1004	Y1005	Y1006	Y1007	Y1008	Y1009	Y1010	Y1011	Y1012	Y1013	Y1014	Y1015	Y1016	Y1017	Y1018	Y1019	Y1020	Y1021	Y1022	Y1023	Y1024	Y1025	Y1026	Y1027	Y1028	Y1029	Y1030	Y1031	Y1032	Y1033	Y1034	Y1035	Y1036	Y1037	Y1038	Y1039	Y1040	Y1041	Y1042	Y1043	Y1044	Y1045	Y1046	Y1047	Y1048	Y1049	Y1050	Y1051	Y1052	Y1053	Y1054	Y1055	Y1056	Y1057	Y1058	Y1059	Y1060	Y1061	Y1062	Y1063	Y1064	Y1065	Y1066	Y1067	Y1068	Y1069	Y1070	Y1071	Y1072	Y1073	Y1074	Y1075	Y1076	Y1077	Y1078	Y1079	Y1080	Y1081	Y1082	Y1083	Y1084	Y1085	Y1086	Y1087	Y1088	Y1089	Y1090	Y1091	Y1092	Y1093	Y1094	Y1095	Y1096	Y1097	Y1098	Y1099	Y1100	Y1101	Y1102	Y1103	Y1104	Y1105	Y1106	Y1107	Y1108	Y1109	Y1110	Y1111	Y1112	Y1113	Y1114	Y1115	Y1116	Y1117	Y1118	Y1119	Y1120	Y1121	Y1122	Y1123	Y1124	Y1125	Y1126	Y1127	Y1128	Y1129	Y1130	Y1131	Y1132	Y1133	Y1134	Y1135	Y1136	Y1137	Y1138	Y1139	Y1140	Y1141	Y1142	Y1143	Y1144	Y1145	Y1146	Y1147	Y1148	Y1149	Y1150	Y1151	Y1152	Y1153	Y1154	Y1155	Y1156	Y1157	Y1158	Y1159	Y1160	Y1161	Y1162	Y1163	Y1164	Y1165	Y1166	Y1167	Y1168	Y1169	Y1170	Y1171	Y1172	Y1173	Y1174	Y1175	Y1176	Y1177	Y1178	Y1179	Y1180	Y1181	Y1182	Y1183	Y1184	Y1185	Y1186	Y1187	Y1188	Y1189	Y1190	Y1191	Y1192	Y1193	Y1194	Y1195	Y1196	Y1197	Y1198	Y1199	Y1200	Y1201	Y1202	Y1203	Y1204	Y1205	Y1206	Y1207	Y1208	Y1209	Y1210	Y1211	Y1212	Y1213	Y1214	Y1215	Y1216	Y1217	Y1218	Y1219	Y1220	Y1221	Y1222	Y1223	Y1224	Y1225	Y1226	Y1227	Y1228	Y1229	Y1230	Y1231	Y1232	Y1233	Y1234	Y1235	Y1236	Y1237	Y1238	Y1239	Y1240	Y1241	Y1242	Y1243	Y1244	Y1245	Y1246	Y1247	Y1248	Y1249	Y1250	Y1251	Y1252	Y1253	Y1254	Y1255	Y1256	Y1257	Y1258	Y1259	Y1260	Y1261	Y1262	Y1263	Y1264	Y1265	Y1266	Y1267	Y1268	Y1269	Y1270	Y1271	Y1272	Y1273	Y1274	Y1275	Y1276	Y1277	Y1278	Y1279	Y1280	Y1281	Y1282	Y1283	Y1284	Y1285	Y1286	Y1287	Y1288	Y1289	Y1290	Y1291	Y1292	Y1293	Y1294	Y1295	Y1296	Y1297	Y1298	Y1299	Y1300	Y1301	Y1302	Y1303	Y1304	Y1305	Y1306	Y1307	Y1308	Y1309	Y1310	Y1311	Y1312	Y1313	Y1314	Y1315	Y1316	Y1317	Y1318	Y1319	Y1320	Y1321	Y1322	Y1323	Y1324	Y1325	Y1326	Y1327	Y1328	Y1329	Y1330	Y1331	Y1332	Y1333	Y1334	Y1335	Y1336
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(MULTI-LAT23)

LINE : 93XNJ- 11

SP.NO	TV	V1	V2	V3	V4	V5V	Tcharge	T1	T2(s)	T3(s)	Tv1(s)	Tv2(s)	Tv3(s)	Dv1(m)	Dv2(m)	Dv3(m)	Stv(s)	SDv(m)
1001	131.119	55	525	938	1567	1715	0.030	0.019	0.024	0.025	0.025	0.003	0.000	1.636	1.821	0.204	0.028	3.661
1014	122.158	122	1765			1715	0.030	0.024			0.027			3.325			0.027	3.325
1026	113.886	114	1579			1600	0.030	0.016			0.023			2.644			0.023	2.644
1039	104.925	105	1622			1600	0.030	0.015			0.023			2.382			0.023	2.382
1051	96.654	50	454	1000	1667	1667	0.040	0.020	0.024	0.025	0.030	0.002	0.001	1.497	0.945	0.722	0.033	3.164
1064	109.533	110	1667			1667	0.040	0.015			0.028			3.048			0.028	3.048
1076	121.537	122	1579			1622	0.040	0.023			0.031			3.809			0.031	3.809
1089	134.476	134	1667			1622	0.040	0.017			0.028			3.811			0.028	3.811
1101	146.420	50	410	1074	1667	1622	0.040	0.015	0.021	0.024	0.028	0.003	0.002	1.385	1.142	2.244	0.033	4.771
1126	124.034	124	1579			1600	0.040	0.016			0.028			3.484			0.028	3.484
1139	112.394	112	1622			1600	0.040	0.012			0.026			2.929			0.026	2.929
1151	101.649	50	250	555	1667	1567	0.040	0.013	0.016	0.022	0.027	0.001	0.003	1.352	0.298	1.494	0.031	3.144
1164	124.162	124	1667			1567	0.040	0.013			0.027			3.299			0.027	3.299
1176	144.943	145	1667			1622	0.040	0.024			0.032			4.656			0.032	4.656
1189	167.455	167	579			1622	0.040	0.022			0.031			5.176			0.031	5.176
1199	184.773	50	625	1153	1579	1622	0.040	0.019	0.022	0.027	0.030	0.001	0.003	1.460	0.880	4.012	0.034	6.371
1212	217.549	218	1667			1622	0.040	0.023			0.032			6.912			0.032	6.912
1220	237.718	238	1714			1667	0.040	0.026			0.033			7.851			0.033	7.851
1233	270.494	270	1622			1667	0.040	0.021			0.031			8.367			0.031	8.367
1250	313.355	66	357	1111	1667	1667	0.030	0.010	0.013	0.022	0.021	0.001	0.006	1.353	0.352	7.005	0.028	8.710
1263	286.553	287	1667			1667	0.030	0.021			0.026			7.462			0.026	7.462
1275	261.812	262	1714			1690	0.030	0.029			0.030			7.789			0.030	7.789
1288	235.009	235	1667			1690	0.030	0.018			0.024			5.733			0.024	5.733
1307	195.836	63	417	909	1667	1667	0.032	0.013	0.016	0.023	0.023	0.002	0.004	1.407	0.727	3.333	0.028	5.467
1320	195.836	136	1667			1667	0.032	0.019			0.025			4.979			0.025	4.979
1331	195.836	196	1667			1667	0.032	0.031			0.031			6.163			0.031	6.163
1344	195.836	196	1667			1667	0.032	0.019			0.025			6.163			0.025	6.163

(MULTI-LAYER)

LINE : 93830- 13

SP.NO	VW	V1	V2	V3	V4	V5W	Icharge	T1	T2(s)	T3(s)	T4(s)	T5(s)	T6(s)	T7(s)	Dw1(s)	Dw2(s)	Dw3(s)	SPW(s)	SDW(s)
1001	81.222	43	555	1000	1557	1557	0.047	0.022	0.023	0.025	0.034	0.001	0.001	0.001	1.457	0.285	1.153	0.036	2.906
1014	75.555	73	1667			1667	0.047	0.012			0.029				2.285			0.029	2.285
1026	75.344	75	1667			1667	0.047	0.025			0.036				2.733			0.036	2.733
1039	73.807	74	1667			1667	0.047	0.018			0.032				2.365			0.032	2.365
1051	71.455	50	555	1111	1579	1522	0.040	0.015	0.015	0.017	0.023	0.001	0.001	0.000	1.379	0.375	0.275	0.028	2.929
1064	74.352	74	1667			1622	0.040	0.014			0.027				2.010			0.027	2.010
1075	77.015	77	1579			1590	0.040	0.015			0.027				2.101			0.027	2.101
1089	73.302	80	1622			1500	0.040	0.018			0.029				2.320			0.029	2.320
1101	82.566	41	714	1000	1667	1667	0.049	0.018	0.021	0.022	0.033	0.002	0.000	0.000	1.371	1.502	0.067	0.036	2.941
1114	87.733	88	1667			1667	0.049	0.007			0.028				2.429			0.032	3.007
1126	92.540	93	1667			1667	0.049	0.016			0.032				3.002			0.032	3.002
1139	97.727	98	1667			1667	0.049	0.016			0.032				3.171			0.032	3.171
1151	102.514	47	625	1176	1667	1667	0.043	0.015	0.015	0.017	0.029	0.000	0.000	0.001	1.345	0.142	1.510	0.030	3.096
1164	101.463	101	1667			1667	0.043	0.003			0.023				2.314			0.023	2.314
1176	100.387	100	1667			1667	0.043	0.022			0.032				3.221			0.032	3.221
1189	99.280	99	1667			1667	0.043	0.016			0.029				2.887			0.029	2.887
1201	98.259	50	625	1000	1579	1622	0.040	0.014	0.016	0.017	0.027	0.001	0.001	0.001	1.342	0.739	0.727	0.029	2.828
1214	99.975	100	1667			1622	0.040	0.017			0.026				2.823			0.026	2.823
1226	101.559	102	1667			1644	0.040	0.021			0.030				3.078			0.030	3.078
1239	103.274	103	1622			1644	0.040	0.014			0.027				2.794			0.027	2.794
1251	104.858	50	689	1000	1579	1622	0.040	0.013	0.017	0.018	0.027	0.002	0.000	0.000	1.329	1.629	0.086	0.029	3.043
1264	108.100	108	1667			1622	0.040	0.016			0.028				3.006			0.028	3.006
1280	112.090	112	1579			1579	0.040	0.016			0.023				3.118			0.023	3.118
1293	115.332	115	1579			1579	0.040	0.013			0.026				3.036			0.026	3.036
1301	117.327	48	588	1111	1579	1622	0.042	0.018	0.023	0.024	0.030	0.003	0.001	0.001	1.425	1.593	0.794	0.033	3.902
1314	123.449	123	1667			1622	0.042	0.005			0.023				2.857			0.023	2.857

REF ID: A66123

ISP.NO	Yr	Y1	Y2	V3	V4	V5x	Charge	F1	T2(s)	T3(s)	Twi(s)	TW2(s)	TW3(s)	DV1(a)	DV2(a)	DW3(a)	SW(s)	SDW(a)
1091	1245.55	40	576	1000	1555	1555	0.050	0.013	0.013	0.032	0.032	0.004	0.007	1.253	2.078	7.249	0.042	10.550
1092	1245.12	231	1555			1555	0.050	0.026			0.038			9.981			0.032	9.981
1093	1245.12	231	1555								0.042			11.432			0.042	11.432
1094	1245.12	231	1555															
1095	1245.12	231	1555															
1096	1245.12	231	1555															
1097	1245.12	231	1555															
1098	1245.12	231	1555															
1099	1245.12	231	1555															
1100	1245.12	231	1555															
1101	1245.12	231	1555															
1102	1245.12	231	1555															
1103	1245.12	231	1555															
1104	1245.12	231	1555															
1105	1245.12	231	1555															
1106	1245.12	231	1555															
1107	1245.12	231	1555															
1108	1245.12	231	1555															
1109	1245.12	231	1555															
1110	1245.12	231	1555															
1111	1245.12	231	1555															
1112	1245.12	231	1555															
1113	1245.12	231	1555															
1114	1245.12	231	1555															
1115	1245.12	231	1555															
1116	1245.12	231	1555															
1117	1245.12	231	1555															
1118	1245.12	231	1555															
1119	1245.12	231	1555															
1120	1245.12	231	1555															
1121	1245.12	231	1555															
1122	1245.12	231	1555															
1123	1245.12	231	1555															
1124	1245.12	231	1555															
1125	1245.12	231	1555															
1126	1245.12	231	1555															
1127	1245.12	231	1555															
1128	1245.12	231	1555															
1129	1245.12	231	1555															
1130	1245.12	231	1555															
1131	1245.12	231	1555															
1132	1245.12	231	1555															
1133	1245.12	231	1555															
1134	1245.12	231	1555															
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1136	1245.12	231	1555															
1137	1245.12	231	1555															
1138	1245.12	231	1555															
1139	1245.12	231	1555															
1140	1245.12	231	1555															
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1143	1245.12	231	1555															
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1153	1245.12	231	1555															
1154	1245.12	231	1555															
1155	1245.12	231	1555															
1156	1245.12	231	1555															
1157	1245.12	231	1555															
1158	1245.12	231	1555															
1159	1245.12	231	1555															
1160	1245.12	231	1555															
1161	1245.12	231	1555															
1162	1245.12	231	1555															
1163	1245.12	231	1555															
1164	1245.12	231	1555															
1165	1245.12	231	1555															
1166	1245.12	231	1555															
1167	1245.12	231	1555															
1168	1245.12	231	1555															
1169	1245.12	231	1555															
1170	1245.12	231	1555															
1171	1245.12	231	1555															
1172	1245.12	231	1555															
1173	1245.12	231	1555															
1174	1245.12	231	1555															
1175	1245.12	231	1555															
1176	1245.12	231	1555															
1177	1245.12	231	1555															
1178	1245.12	231	1555															
1179	1245.12	231	1555															
1180	1245.12	231	1555															
1181	1245.12	231	1555															
1182	1245.12	231	1555															
1183	1245.12	231	1555															
1184	1245.12	231	1555															
1185	1245.12	231	1555															
1186	1245.12	231	1555															
1187	1245.12	231	1555															
1188	1245.12	231	1555															
1189	1245.12	231	1555															
1190	1245.12	231	1555															
1191	1245.12	231	1555															
1192	1245.12	231	1555															
1193	1245.12	231	1555															
1194	1245.12	231	1555															
1195	1245.12	231	1555															
1196	1245.12	231	1555															
1197	1245.12	231	1555															
1198	1245.12	231	1555															
1199	1245.12	231	1555															
1200	1245.12	231	1555															
1201	1245.12	231	1555															
1202	1245.12	231	1555															
1203	1245.12	231	1555															
1204	1245.12	231	1555															
1205	1245.12	231	1555															
1206	1245.12	231	1555															
1207	1245.12	231	1555															
1208	1245.12	231	1555															
1209	1245.12	231	1555				</											

MULTI-LAYER

LINE : 93WJ- 57

SP.NO	V0	V1	V2	V3	V4	V5	Charge	T1	T2(s)	T3(s)	T4(s)	T5(s)	T6(s)	T7(s)	DV1(E)	DV2(E)	DV3(E)	STV(S)	SDV(E)
1001	79.124	50	638	1034	1579	1622	0.040	0.017	0.018	0.019	0.029	0.001	0.001	0.001	1.429	0.361	0.559	0.030	2.350
1014	129.235	129	1667			1622	0.040	0.175			0.108				13.935			0.188	115.935
1026	175.492	175	1667			1667	0.040	0.031			0.036				6.265			0.036	6.265
1039	225.603	226	1667			1667	0.040	0.023			0.032				7.116			0.032	7.116
1051	271.839	40	555	1000	1579	1622	0.050	0.022	0.024	0.041	0.036	0.001	0.011	0.011	1.444	0.457	11.173	0.048	113.074
1064	231.618	232	1667			1622	0.050	0.026			0.038				8.829			0.038	8.829
1076	194.472	194	1667			1667	0.050	0.019			0.034				6.706			0.034	6.706
1089	154.231	154	1667			1667	0.050	0.014			0.032				4.918			0.032	4.918
1101	117.085	48	555	1071	1667	1667	0.042	0.017	0.023	0.025	0.029	0.003	0.001	0.001	1.413	1.894	0.606	0.033	3.913
1114	122.444	122	1667			1667	0.042	0.014			0.028				3.387			0.028	3.387
1126	127.390	127	1667			1714	0.042	0.020			0.031				3.939			0.031	3.939
1139	132.749	133	1765			1714	0.042	0.009			0.025				3.373			0.025	3.373
1151	137.696	48	625	1034	1667	1622	0.042	0.017	0.025	0.027	0.029	0.005	0.000	0.000	1.400	3.291	0.058	0.024	4.749
1164	122.730	123	1579			1622	0.042	0.017			0.029				3.611			0.029	3.611
1176	108.916	109	1667			1667	0.042	0.020			0.031				3.338			0.031	3.338
1189	93.950	94	1667			1667	0.042	0.019			0.030				2.831			0.030	2.831
1201	80.135	52	666	1071	1667	1622	0.038	0.022	0.023	0.024	0.030	0.001	0.001	0.001	1.577	0.377	0.554	0.031	2.518
1214	101.319	101	1579			1622	0.038	0.014			0.026				2.663			0.026	2.663
1226	120.874	121	1667			1667	0.038	0.016			0.027				3.270			0.027	3.270
1239	142.058	142	1667			1667	0.038	0.016			0.027				3.882			0.027	3.882
1255	158.130	48	555	1111	1667	1667	0.042	0.018	0.019	0.025	0.030	0.000	0.004	0.004	1.437	0.266	4.020	0.034	5.724
1268	158.130	168	1667			1667	0.042	0.017			0.029				4.915			0.029	4.915
1276	158.130	168	1667			1667	0.042	0.021			0.031				5.253			0.031	5.253
1289	158.130	168	1667			1667	0.042	0.016			0.029				4.830			0.029	4.830

MULTI-LAYER

LINE : 93WJ- 59

SP.NO	VW	V1	72	V3	V4	V5	Charge	71	22(s)	13(s)	21(s)	22(s)	23(s)	24(s)	25(s)	26(s)	27(s)	28(s)	29(s)	30(s)
1001	119.320	40	415	1000	1557	1557	0.050	0.012	0.015	0.021	0.031	0.031	0.034	1.215	0.517	2.833	0.036	5.401		
1014	139.159	139	1557			1557	0.050	0.022			0.035			5.027			0.036	5.027		
1026	129.225	129	1557			1557	0.050	0.023			0.036			4.899			0.036	4.899		
1039	118.466	118	1557			1557	0.050	0.024			0.037			4.394			0.037	4.394		
1051	208.533	33	455	1000	1764	1714	0.061	0.022	0.025	0.030	0.041	0.002	0.003	1.358	0.722	2.870	0.046	4.951		
1064	110.837	111	1557			1714	0.061	0.017			0.039			4.312			0.039	4.312		
1076	113.061	113	1579			1579	0.061	0.020			0.040			4.540			0.040	4.540		
1089	115.415	115	1579			1579	0.061	0.019			0.040			4.696			0.040	4.506		
1101	117.588	40	455	1111	1579	1579	0.050	0.013	0.018	0.021	0.032	0.003	0.002	1.205	1.196	1.752	0.036	4.213		
1114	124.570	125	1579			1579	0.050	0.016			0.033			4.092			0.033	4.092		
1126	131.015	131	1557			1557	0.050	0.023			0.037			4.797			0.037	4.797		
1139	137.996	138	1557			1557	0.050	0.016			0.033			4.570			0.033	4.570		
1151	144.441	40	500	1053	1764	1714	0.050	0.021	0.027	0.032	0.035	0.003	0.003	1.415	1.555	2.917	0.041	5.986		
1164	139.266	139	1557			1714	0.050	0.013			0.031			4.367			0.031	4.367		
1176	134.490	134	1579			1579	0.050	0.021			0.035			4.758			0.035	4.758		
1189	129.315	129	1579			1579	0.050	0.023			0.034			4.379			0.034	4.379		
1201	124.539	40	400	1111	1667	1667	0.050	0.018	0.023	0.026	0.034	0.003	0.002	1.357	1.008	2.447	0.039	4.813		
1214	113.606	114	1557			1667	0.050	0.022			0.036			4.099			0.036	4.099		
1226	103.515	104	1579			1579	0.050	0.021			0.035			3.557			0.035	3.557		
1239	92.583	93	1579			1579	0.050	0.022			0.036			3.316			0.036	3.316		
1251	82.492	33	500	1053	1557	1522	0.061	0.020	0.022	0.025	0.040	0.001	0.001	1.325	0.532	1.517	0.042	3.543		
1264	79.346	79	1579			1622	0.061	0.019			0.040			3.142			0.040	3.142		
1276	76.442	76	1579			1579	0.061	0.010			0.035			2.702			0.035	2.702		
1289	73.297	73	1579			1579	0.061	0.019			0.040			2.902			0.040	2.902		
1301	70.393	33	476	1000	1557	1522	0.061	0.017	0.021	0.022	0.039	0.002	0.001	1.284	0.908	0.732	0.042	2.924		
1314	70.393	70	1579			1622	0.061	0.015			0.038			2.646			0.038	2.646		
1320	70.393	70	1764			1666	0.061	0.025			0.043			3.015			0.043	3.015		

LAMPIRAN C

HASIL PENGOLAHAN DATA

1. LINE 93WNJ-16
2. LINE 93WNJ-18
3. LINE 93WNJ-20
4. LINE 93WNJ-20A
5. LINE 93WNJ-26
6. LINE 93WNJ-28
7. LINE 93WNJ-30
8. LINE 93WNJ-32



(MULTI-LAYER)

LINE : 03WNJ-16

SP.NO	Vw	V1	V2	V3	V4	Vw	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	STw(s)	SDw(m)
1501	157.364																	
1500	157.364	50	588	1052	1579	1579	0.040	0.0090	0.0105	0.0145	0.025	0.001	0.003	1.229	0.488	2.884	0.028	4.402
1499	159.218																	
1498	161.073																	
1497	162.928																	
1496	164.783																	
1495	166.638																	
1494	168.493																	
1493	170.348																	
1492	172.203																	
1491	174.057																	
1490	175.912																	
1489	177.767																	
1488	179.622	180	1579			1579	0.040	0.0150			0.028			4.972			0.028	4.972
1487	181.477																	
1486	183.332																	
1485	185.187																	
1484	187.042																	
1483	188.896																	
1482	190.751																	
1481	192.605																	
1480	194.461																	
1479	196.316																	
1478	198.171																	
1477	200.026																	
1476	201.881																	
1475	203.735	204	1667			1644	0.040	0.0235			0.032			6.517			0.032	6.517
1474	205.590																	
1473	207.445																	
1472	209.300																	
1471	211.155																	
1470	213.010																	
1469	214.865																	
1468	216.720																	
1467	218.574																	
1466	220.429																	
1465	222.284																	
1464	224.139																	
1463	225.994	226	1622			1644	0.040	0.0200			0.030			6.847			0.030	6.847
1462	227.849																	
1461	229.704																	
1460	231.559																	
1459	233.413																	
1458	235.268																	
1457	237.123																	
1456	238.978																	
1455	240.833																	
1454	242.688																	
1453	244.543																	
1452	246.398																	
1451	248.252																	
1450	250.107	53	588	1111	1667	1667	0.038	0.0090	0.0155	0.0220	0.023	0.004	0.004	1.244	2.205	4.333	0.031	7.782
1449	251.962																	
1448	253.817																	
1447	255.672																	
1446	257.527																	
1445	259.382																	
1444	261.237																	
1443	263.092																	
1442	264.947																	
1441	266.802																	
1440	268.657																	
1439	270.512																	
1438	272.367	284	1667			1667	0.038	0.0210			0.030			7.856			0.030	7.856
1437	274.222																	
1436	276.077																	
1435	277.932																	
1434	279.787																	
1433	281.642																	
1432	283.497																	
1431	285.352																	
1430	287.207																	
1429	289.062																	
1428	290.917																	
1427	292.772																	
1426	294.627																	
1425	296.482	279	1667			1667	0.038	0.0275			0.033			9.241			0.033	9.241
1424	298.337																	
1423	300.192																	
1422	302.047																	
1421	303.902																	
1420	305.757																	
1419	307.612																	
1418	309.467																	
1417	311.322																	
1416	313.177																	
1415	315.032																	
1414	316.887																	
1413	318.742	293	1667			1667	0.038	0.0165			0.028			8.080			0.028	8.080
1412	320.597																	
1411	322.452																	
1410	324.307																	
1409	326.162																	
1408	328.017																	
1407	329.872																	
1406	331.727																	
1405	333.582																	
1404	335.437																	
1403	337.292																	
1402	339.147																	
1401	341.002																	
1400	342.857	55	625	1111	1579	1500	0.036	0.0120	0.0140	0.0245	0.024	0.001	0.007	1.335	0.707	8.023	0.033	10.063
1399	344.712																	
1398	346.567																	
1397	348.422																	
1396	350.277																	
1395	352.132																	
1394	353.987																	
1393	355.842																	
1392	357.697																	
1391	359.552																	
1390	361.407																	
1389	363.262																	
1388	365.117																	
1387	366.972	263	1622			1600	0.036	0.0225			0.030			8.030			0.030	8.030
1386	368.827																	

(MULTI-LAYER)

LINE : 03WNJ- 18

[SP.NO]	Vw	V1	V2	V3	V4	Vsw	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	STw(s)	SDw(m)
1584	266.517																	
1583	266.517	33	294	937	1687	1687	0.061	0.010	0.013	0.033	0.036	0.001	0.012	1.172	0.324	11.552	0.049	13.048
1582	264.039																	
1581	261.561																	
1580	259.083																	
1579	256.605																	
1578	254.128																	
1577	251.650																	
1576	249.172																	
1575	246.695																	
1574	244.217																	
1573	241.739																	
1572	239.261																	
1571	236.784	207	1687			1687	0.061	0.018			0.040			9.402			0.040	9.402
1570	234.306																	
1569	231.828																	
1568	229.350																	
1567	226.873																	
1566	224.395																	
1565	221.917																	
1564	219.439																	
1563	216.962																	
1562	214.484	214	1687			1557	0.061	0.023			0.042			9.041			0.042	9.041
1561	212.006																	
1560	209.528																	
1559	207.051																	
1558	204.573																	
1557	202.095																	
1556	199.617																	
1555	197.140																	
1554	194.662																	
1553	192.184																	
1552	189.706																	
1551	187.229																	
1550	184.751	185	1687			1687	0.061	0.019			0.040			7.353			0.040	7.353
1549	182.273																	
1548	179.795																	
1547	177.318																	
1546	174.840																	
1545	172.362																	
1544	169.884																	
1543	167.407																	
1542	164.929	33	400	862	1579	1622	0.061	0.015	0.018	0.029	0.038	0.002	0.006	1.252	0.827	5.702	0.046	7.50
1541	162.451																	
1540	160.152																	
1539	157.674																	
1538	155.196																	
1537	152.718																	
1536	150.240																	
1535	147.762																	
1534	145.284																	
1533	142.806																	
1532	140.328																	
1531	137.850																	
1530	135.372																	
1529	132.894	154	1687			1622	0.061	0.019			0.040			6.167			0.040	6.16
1528	130.416																	
1527	127.938																	
1526	125.460																	
1525	122.982																	
1524	120.504																	
1523	118.026																	
1522	115.548																	
1521	113.070																	
1520	110.592																	
1519	108.114																	
1518	105.636																	
1517	103.158																	
1516	100.680																	
1515	98.202																	
1514	95.724																	
1513	93.246																	
1512	90.768																	
1511	88.290																	
1510	85.812																	
1509	83.334																	
1508	80.856	135	1687			1622	0.061	0.022			0.041			5.349			0.041	5.34
1507	78.378																	
1506	75.900																	
1505	73.422																	
1504	70.944																	
1503	68.466																	
1502	65.988																	
1501	63.510																	
1500	61.032																	
1499	58.554																	
1498	56.076																	
1497	53.598																	
1496	51.120																	
1495	48.642																	
1494	46.164	124	1579			1622	0.061	0.016			0.039			4.680			0.039	4.68
1493	43.686																	
1492	41.208																	
1491	38.730																	
1490	36.252																	
1489	33.774																	

1406	116.057																		
1407	116.068																		
1495	115.100																		
1495	114.292																		
1404	113.403																		
1483	112.515	40	250	882	1687	1622	0.050	0.011	0.020	0.024	0.031	0.004	0.002	1.236	1.012	1.930	0.037	4.178	
1482	112.792																		
1481	113.070																		
1480	113.347																		
1479	113.624																		
1478	113.902																		
1477	114.179																		
1476	114.457																		
1475	114.734																		
1474	115.011																		
1473	115.289																		
1472	115.566																		
1471	115.844	116	1622			1622	0.050	0.020			0.035			4.085			0.035	4.085	
1470	116.121																		
1469	116.398																		
1468	116.676																		
1467	116.953																		
1466	117.231																		
1465	117.508																		
1464	117.785																		
1463	118.063																		
1462	118.340																		
1461	118.618																		
1460	118.895																		
1459	119.172																		
1458	119.450	116	1622			1622	0.050	0.017			0.034			4.012			0.034	4.012	
1457	119.727																		
1456	120.005																		
1455	120.282																		
1454	120.559																		
1453	120.837																		
1452	121.114																		
1451	121.392																		
1450	121.669																		
1449	121.946																		
1448	122.224																		
1447	122.501																		
1446	122.779	123	1622			1622	0.050	0.016			0.034			4.156			0.034	4.156	
1445	123.056																		
1444	123.333																		
1443	123.611																		
1442	123.888																		
1441	124.166																		
1440	124.443																		
1439	124.720																		
1438	124.998																		
1437	125.275																		
1436	125.553																		
1435	125.830																		
1434	126.107																		
1433	126.385	33	370	1000	1687	1622	0.051	0.015	0.023	0.028	0.038	0.004	0.003	1.244	1.541	2.889	0.045	5.854	
1432	126.663																		
1431	126.940																		
1430	131.631																		
1429	133.380																		
1428	135.129																		
1427	136.878																		
1426	138.627																		
1425	140.376																		
1424	142.125																		
1423	143.874																		
1422	145.623																		
1421	147.372	147	1579			1622	0.061	0.010			0.035			5.188			0.035	5.188	
1420	149.120																		
1419	150.869																		
1418	152.618																		
1417	154.367																		
1416	156.116																		
1415	157.865																		
1414	159.614																		
1413	161.363																		
1412	163.112																		
1411	164.861																		
1410	166.609																		
1409	168.358																		
1408	170.107																		
1407	171.856																		
1406	173.605																		
1405	175.354																		
1404	177.103																		
1403	178.852																		
1402	180.601																		
1401	182.350																		
1400	184.099																		
1399	185.847																		
1398	187.596																		
1397	189.345	189	1687			1687	0.061	0.019			0.040			7.588			0.040	7.588	
1396	191.094																		
1395	192.843																		
1394	194.592																		
1393	196.341																		
1392	198.090																		
1391	199.839																		
1390	201.588																		
1389	203.336																		
1388	205.085																		
1387	206.834																		
1386	208.583																		
1385	210.332	210	1687			1687	0.061	0.013			0.037			7.750			0.037	7.750	
1384	212.081																		
1383	213.830																		

1382	215.379																		
1381	217.328																		
1380	218.077																		
1379	220.825																		
1378	222.574																		
1377	224.323	40	250	1000	1667	1622	0.050	0.007	0.009	0.020	0.029	0.001	0.007	1.155	0.168	8.859	0.036	6.102	
1376	221.351																		
1375	218.378																		
1374	215.406																		
1373	212.434																		
1372	209.461																		
1371	206.489																		
1370	203.516																		
1369	200.544																		
1368	197.571																		
1367	194.599																		
1366	191.627																		
1365	188.654	189	1579			1622	0.050	0.015			0.034			6.508			0.034	6.508	
1364	185.682																		
1363	182.709																		
1362	179.737																		
1361	176.765																		
1360	173.792																		
1359	170.820																		
1358	167.847	168	1579			1579	0.050	0.023			0.037			6.161			0.037	6.161	
1357	164.875																		
1356	161.902																		
1355	158.930																		
1354	155.958																		
1353	152.985																		
1352	150.013																		
1351	147.040																		
1350	144.068																		
1349	141.095																		
1348	138.123																		
1347	135.151																		
1346	132.178	132	1579			1579	0.050	0.013			0.032			4.178			0.032	4.178	
1345	129.206																		
1344	126.233																		
1343	123.261																		
1342	120.289																		
1341	117.316																		
1340	114.344																		
1339	111.371																		
1338	108.399																		
1337	105.426																		
1336	102.454																		
1335	99.482																		
1334	96.509																		
1333	93.537	33	400	1000	1579	1579	0.061	0.017	0.019	0.023	0.039	0.001	0.002	1.277	0.497	2.163	0.042	3.937	
1332	90.564																		
1331	87.592																		
1330	84.619																		
1329	81.646																		
1328	78.674																		
1327	75.701																		
1326	72.729																		
1325	69.756																		
1324	66.784																		
1323	63.811																		
1322	60.838																		
1321	57.865	98	1579			1579	0.061	0.021			0.041			3.935			0.041	3.935	
1320	54.893																		
1319	51.921																		
1318	48.948																		
1317	45.976																		
1316	42.993																		
1315	40.020																		
1314	37.058																		
1313	34.085																		
1312	31.113																		
1311	28.140																		
1310	25.168																		
1309	22.195																		
1308	19.222	99	1714			1690	0.061	0.022			0.041			4.080			0.041	4.080	
1307	16.250																		
1306	13.277																		
1305	10.305																		
1304	7.332																		
1303	4.360																		
1302	1.387																		
1301	0.000																		
1300	0.000																		
1299	0.000																		
1298	0.000																		
1297	0.000																		
1296	0.000																		
1295	0.000																		
1294	0.000																		
1293	0.000																		
1292	0.000																		
1291	0.000																		
1290	0.000																		
1289	0.000																		
1288	0.000																		
1287	0.000																		
1286	0.000																		
1285	0.000																		
1284	0.000																		
1283	0.000	33	416	1000	1667	1667	0.061	0.016	0.018	0.022	0.038	0.001	0.003	1.260	0.412	2.723	0.042	4.394	

(MULTI-LAYER)

LINE : 03 WNJ-20

SP.NO	Vw	V1	V2	V3	V4	Vav	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dwt(m)	Dw2(m)	Dw3(m)	STw(s)	GDw(m)
1431	135.880																	
1430	135.580	40	455	1000	1765	1765	0.050	0.015	0.019	0.026	0.033	0.002	0.004	1.315	0.843	3.752	0.038	5.910
1449	132.990																	
1448	132.400																	
1447	131.810																	
1446	131.220																	
1445	130.630																	
1444	130.041																	
1443	129.451																	
1442	128.861																	
1441	128.271																	
1440	127.681																	
1439	127.091																	
1438	126.502	147	1765			1765	0.050	0.023			0.037			5.366			0.037	5.366
1437	125.912																	
1436	125.322																	
1435	124.732																	
1434	124.142																	
1433	123.553																	
1432	122.963																	
1431	122.373																	
1430	121.783																	
1429	121.193																	
1428	120.603																	
1427	120.014																	
1426	119.424																	
1425	118.834	139	1667			1667	0.050	0.025			0.037			5.190			0.037	5.190
1424	118.244																	
1423	117.654																	
1422	117.064																	
1421	116.475																	
1420	115.885																	
1419	115.295																	
1418	114.705																	
1417	114.115																	
1416	113.525																	
1415	112.936																	
1414	112.346																	
1413	111.756	132	1667			1667	0.050	0.010			0.030			3.932			0.030	3.932
1412	111.166																	
1411	110.576																	
1410	109.987																	
1409	109.397																	
1408	108.807																	
1407	108.217																	
1406	107.627																	
1405	107.037																	
1404	106.448																	
1403	105.858																	
1402	105.268																	
1401	104.678																	
1400	104.088	40	416	1000	1667	1667	0.050	0.016	0.019	0.024	0.033	0.002	0.003	1.326	0.828	2.680	0.037	4.634
1399	103.498																	
1398	102.908																	
1397	102.318																	
1396	101.728																	
1395	101.138																	
1394	100.548																	
1393	99.958																	
1392	99.368																	
1391	98.778																	
1390	98.188																	
1389	97.598																	
1388	97.008	122	1667			1667	0.050	0.006			0.028			3.412			0.028	3.412
1387	96.418																	
1386	95.828																	
1385	95.238																	
1384	94.648																	
1383	94.058																	
1382	93.468																	
1381	92.878																	
1380	92.288																	
1379	91.698																	
1378	91.108																	
1377	90.518																	
1376	89.928																	
1375	89.338	119	1500			1530	0.050	0.018			0.034			4.051			0.034	4.051
1374	88.748																	
1373	88.158																	
1372	87.568																	
1371	86.978																	
1370	86.388																	
1369	85.798																	
1368	85.208																	
1367	84.618																	
1366	84.028																	
1365	83.438																	
1364	82.848																	
1363	82.258	118	1570			1538	0.050	0.023			0.036			4.224			0.036	4.224
1362	81.668																	
1361	81.078																	
1360	80.488																	
1359	79.898																	
1358	79.308																	
1357	78.718																	
1356	78.128																	
1355	77.538																	
1354	76.948																	
1353	76.358																	
1352	75.768																	
1351	75.178																	
1350	74.588	40	517	1111	1570	1570	0.050	0.019	0.023	0.026	0.034	0.002	0.002	1.374	1.267	1.708	0.038	4.349
1349	73.998																	

1014	83.12.1	83	1667	1715	0.050	0.019	0.035	2.871	0.035	2.871								
1013	83.12.1																	
1012	83.12.1																	
1011	83.12.1																	
1010	83.12.1																	
1009	83.12.1																	
1008	83.12.1																	
1007	83.12.1																	
1006	83.12.1																	
1005	83.12.1																	
1004	83.12.1																	
1003	83.12.1																	
1002	83.12.1																	
1001	83.12.1																	
0.034 4.276																		
125																		



(MULTI-LAYER)

LINE : 03WNJ-20A

SP.NO	Vw	V1	V2	V3	V4	Vaw	Tcharge	T1(s)	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	STw(s)	SDw(m)
1134	150.861																	
1133	150.881	50	625	1000	1765	1765	0.040	0.0185	0.0220	0.0270	0.029	0.002	0.003	1.487	1.355	2.597	0.034	5.419
1132	157.511																	
1131	158.141																	
1130	154.771																	
1129	153.401																	
1128	152.031																	
1127	150.661																	
1126	149.291																	
1125	147.921																	
1124	146.551																	
1123	145.181																	
1122	143.811																	
1121	142.441	142	1765			1765	0.040	0.0310			0.038			5.073			0.036	5.073
1120	141.071																	
1119	139.701																	
1118	138.331																	
1117	136.961																	
1116	135.591																	
1115	134.221																	
1114	132.851																	
1113	131.481																	
1112	130.111																	
1111	128.741																	
1110	127.371																	
1109	126.001																	
1108	124.632	125	1667			1667	0.040	0.0295			0.035			4.343			0.035	4.343
1107	123.262																	
1106	121.892																	
1105	120.522																	
1104	119.152																	
1103	117.782																	
1102	116.412																	
1101	115.042																	
1100	113.672																	
1099	112.302																	
1098	110.932																	
1097	109.562																	
1096	108.192	108	1714			1690	0.040	0.0310			0.038			3.848			0.036	3.848
1095	106.822																	
1094	105.452																	
1093	104.082																	
1092	102.712																	
1091	101.342																	
1090	99.972																	
1089	98.602																	
1088	97.232																	
1087	95.862																	
1086	94.492																	
1085	93.122																	
1084	91.752																	
1083	90.382																	
1082	89.012																	
1081	87.642	50	384	833	1667	1667	0.040	0.0175	0.0200	0.0220	0.029	0.001	0.001	1.450	0.457	0.828	0.031	2.732
1080	87.271																	
1079	87.020																	
1078	87.910																	
1077	87.999																	
1076	88.088																	
1075	88.178																	
1074	88.267																	
1073	88.356																	
1072	88.445																	
1071	88.535																	
1070	88.624																	
1069	88.713	50	1667			1667	0.040	0.0296			0.033			2.932			0.033	2.932
1068	88.803																	
1067	88.892																	
1066	88.981																	
1065	89.070																	
1064	89.160																	
1063	89.249																	
1062	89.338																	
1061	89.428																	
1060	89.517																	
1059	89.606																	
1058	89.695	90	1765			1765	0.040	0.0305			0.035			3.168			0.035	3.168
1057	89.785																	
1056	89.874																	
1055	89.963																	
1054	90.053																	
1053	90.142																	
1052	90.231																	
1051	90.320																	
1050	90.410																	
1049	90.499																	
1048	90.588																	
1047	90.678																	
1046	90.767	91	1765			1765	0.040	0.0265			0.033			3.022			0.033	3.022
1045	90.856																	
1044	90.946																	
1043	91.035																	
1042	91.124																	
1041	91.213																	
1040	91.303																	
1039	91.392																	

1038	01.401																		
1037	01.571																		
1036	01.660																		
1035	01.749																		
1034	01.838																		
1033	01.928	48	500	909	1579	1622	0.042	0.0175	0.0210	0.0225	0.030	0.002	0.001	1.427	0.990	0.553	0.032	2.970	
1032	01.928																		
1031	01.928																		
1030	01.928																		
1029	01.928																		
1028	01.928																		
1027	01.928																		
1026	01.928																		
1025	01.928																		
1024	01.928																		
1023	01.928																		
1022	01.928					1622	0.042	0.0210			0.031			2.885			0.031	2.885	
1021	01.928	92	1667																
1020	01.928																		
1019	01.928																		
1018	01.928																		
1017	01.928																		
1016	01.928																		
1015	01.928																		
1014	01.928																		
1013	01.928																		
1012	01.928																		
1011	01.928																		
1010	01.928																		
1009	01.928																		
1008	01.928																		
1007	01.928																		
1006	01.928																		
1005	01.928																		
1004	01.928																		
1003	01.928																		
1002	01.928																		
1001	01.928																		



(MULTI-LAYER)

LINE: 03 WHJ-26

SP.NO	Vw	V1	V2	V3	V4	Vsw	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	STw(s)	SDw(m)
1001	130.066																	
1002	130.066																	
1003	130.066																	
1004	130.066	51	600	1000	1667	1667	0.030	0.014	0.018	0.021	0.027	0.002	0.001	1.362	1.266	1.496	0.030	4.124
1005	141.167																	
1006	146.269																	
1007	151.371																	
1008	156.472																	
1009	161.574																	
1010	166.676																	
1011	171.777																	
1012	176.879																	
1013	181.981																	
1014	187.082																	
1015	192.184																	
1016	197.286																	
1017	202.387	202	1667			1667	0.039	0.021			0.030			8.139			0.030	6.139
1018	207.489																	
1019	212.591																	
1020	217.692																	
1021	222.794																	
1022	227.896																	
1023	232.998																	
1024	238.099																	
1025	243.201																	
1026	248.303	248	1765			1765	0.039	0.027			0.033			8.241			0.033	8.241
1027	253.404																	
1028	258.506																	
1029	263.608																	
1030	268.709																	
1031	273.811																	
1032	278.913																	
1033	284.014																	
1034	289.116																	
1035	294.218																	
1036	299.319																	
1037	304.421																	
1038	309.523																	
1039	314.624	315	1714			1739	0.039	0.022			0.031			9.716			0.031	9.716
1040	319.726																	
1041	324.828																	
1042	329.929																	
1043	335.031																	
1044	340.133																	
1045	345.234																	
1046	350.336																	
1047	355.438																	
1048	360.539																	
1049	365.641																	
1050	370.743																	
1051	375.845	40	500	1111	1667	1667	0.043	0.014	0.016	0.033	0.029	0.001	0.013	13.10	0.816	14.019	0.043	15.991
1052	376.272																	
1053	374.700																	
1054	374.128																	
1055	373.556																	
1056	372.983																	
1057	372.411																	
1058	371.839																	
1059	371.267																	
1060	370.695																	
1061	370.122																	
1062	369.550																	
1063	368.978																	
1064	368.406	368	1667			1667	0.043	0.030			0.038			13.878			0.038	13.878
1065	367.834																	
1066	367.261																	
1067	366.689																	
1068	366.117																	
1069	365.545																	
1070	364.972	365	1714			1714	0.043	0.029			0.037			13.443			0.037	13.443
1071	364.400																	
1072	363.828																	
1073	363.256																	
1074	362.684																	
1075	362.111																	
1076	361.539																	
1077	360.967																	
1078	360.395																	
1079	359.823																	
1080	359.250																	
1081	358.678																	
1082	358.106																	
1083	357.534	358	1714			1714	0.043	0.006			0.025			9.044			0.025	9.044
1084	356.961																	
1085	356.389																	
1086	355.817																	
1087	355.245																	
1088	354.673																	
1089	354.100																	
1090	353.528																	
1091	352.956																	
1092	352.384																	
1093	351.812																	
1094	351.239																	
1095	350.667																	
1096	350.095																	

1421	241.3.19									
1422	241.3.19									
1423	241.3.19									
1424	241.3.19									
1425	241.3.19									
1426	241.3.19	241	1765	1714	0.042	0.035	0.038			9.277
1427	241.3.19									
1428	241.3.19									
1429	241.3.19									
1430	241.3.19									
1431	241.3.19									
1432	241.3.19									
1433	241.3.19									
1434	241.3.19									
1435	241.3.19									
1436	241.3.19									
1437	241.3.19									
1438	241.3.19									
1439	241.3.19	241	1667	1714	0.042	0.020	0.031			7.450
1440	241.3.19									
1441	241.3.19									
1442	241.3.19									
1443	241.3.19									
1444	241.3.19									
1445	241.3.19									
1446	241.3.19									
1447	241.3.19									
1448	241.3.19									
1449	241.3.19									
1450	241.3.19									
1451	241.3.19									



(MULTI-LAYER)

LINE: 03 WNU-28

SP.NO	Vw	V1	V2	V3	V4	Vav	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	STw(s)	SDw(m)
1001	85.113	40	556	1036	1667	1622	0.050	0.020	0.022	0.024	0.035	0.001	0.001	1.404	0.616	1.156	0.037	3.176
1002	85.338																	
1003	85.563																	
1004	85.788																	
1005	86.012																	
1006	86.237																	
1007	86.462																	
1008	86.687																	
1009	86.912																	
1010	87.137																	
1011	87.362																	
1012	87.587																	
1013	87.812																	
1014	88.037	88	1579			1622	0.050	0.020			0.036			3.196			0.036	3.196
1015	88.262																	
1016	88.486																	
1017	88.711																	
1018	88.936																	
1019	89.161																	
1020	89.386																	
1021	89.611																	
1022	89.836																	
1023	90.061																	
1024	90.286																	
1025	90.511																	
1026	90.736	91	1579			1622	0.050	0.019			0.034			3.113			0.034	3.113
1027	90.960																	
1028	91.185																	
1029	91.410																	
1030	91.635																	
1031	91.860																	
1032	92.085																	
1033	92.310																	
1034	92.535																	
1035	92.760																	
1036	92.985																	
1037	93.210																	
1038	93.434																	
1039	93.659	94	1667			1622	0.050	0.022			0.036			3.377			0.036	3.377
1040	93.884																	
1041	94.109																	
1042	94.334																	
1043	94.559																	
1044	94.784																	
1045	95.009																	
1046	95.234																	
1047	95.459																	
1048	95.684																	
1049	95.908	40	526	1000	1667	1622	0.050	0.016	0.016	0.021	0.033	0.001	0.001	1.314	0.731	1.370	0.036	3.415
1050	96.071																	
1051	96.233																	
1052	96.395																	
1053	96.557																	
1054	96.720																	
1055	96.882																	
1056	97.044																	
1057	97.206																	
1058	97.368																	
1059	97.531																	
1060	97.693																	
1061	97.855																	
1062	98.017	98	1579			1622	0.050	0.020			0.035			3.437			0.035	3.437
1063	98.180																	
1064	98.342																	
1065	98.504																	
1066	98.666																	
1067	98.828																	
1068	98.991																	
1069	99.153																	
1070	99.315																	
1071	99.477																	
1072	99.639																	
1073	99.802																	
1074	99.964																	
1075	100.126																	
1076	100.288																	
1077	100.451																	
1078	100.613																	
1079	100.775					1579	0.050	0.017			0.034			3.386			0.034	3.386
1080	100.937	101	1579															
1081	101.099																	
1082	101.262																	
1083	101.424																	
1084	101.586																	
1085	101.748																	
1086	101.911																	
1087	102.073																	
1088	102.235																	
1089	102.397																	
1090	102.559																	

1199	139.480																		
1200	139.881																		
1201	139.885	40	441	811	1765	1765	0.047	0.025	0.034	0.040	0.036	0.005	0.003	1.545	2.170	2.351	0.044	6.066	
1202	140.408																		
1203	142.151																		
1204	143.894																		
1205	145.637																		
1206	147.380																		
1207	149.123																		
1208	150.867																		
1209	152.610																		
1210	154.353																		
1211	156.096																		
1212	157.839																		
1213	159.582																		
1214	161.325	161	1765			1765	0.047	0.024			0.035			5.712			0.035	5.712	
1215	163.068																		
1216	164.812																		
1217	166.555																		
1218	168.298																		
1219	170.041																		
1220	171.784																		
1221	173.527																		
1222	175.270																		
1223	177.014																		
1224	178.757																		
1225	180.500																		
1226	182.243	162	1867			1622	0.047	0.017			0.032			5.776			0.032	5.776	
1227	183.986																		
1228	185.729																		
1229	187.472																		
1230	189.216																		
1231	190.959																		
1232	192.702																		
1233	194.445																		
1234	196.188																		
1235	197.931																		
1236	199.674																		
1237	201.418																		
1238	203.161																		
1239	204.904	205	1579			1622	0.047	0.013			0.030			6.097			0.030	6.097	
1240	206.647																		
1241	208.390																		
1242	210.133																		
1243	211.876																		
1244	213.619																		
1245	215.363																		
1246	217.106																		
1247	218.849																		
1248	220.592																		
1249	222.335																		
1250	224.078																		
1251	225.821	50	469	937	1765	1765	0.040	0.014	0.028	0.036	0.027	0.008	0.004	1.358	3.594	3.835	0.039	6.787	
1252	227.565																		
1253	227.565																		
1254	227.565																		
1255	227.565																		
1256	227.565																		
1257	227.565																		
1258	227.565																		
1259	227.565																		
1260	227.565																		
1261	227.565																		
1262	227.565																		
1263	227.565																		
1264	227.565	228	1765			1765	0.040	0.024			0.032			7.286			0.032	7.286	
1265	227.565																		
1266	227.565																		
1267	227.565																		

(MULTI-LAYER)

LINE : 03WNJ - 30

SP.NO	Vw	V1	V2	V3	V4	Vsw	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	SIw(s)	SDw(m)
1001	163.456	50	652	1034	1667	1667	0.040	0.015	0.020	0.024	0.020	0.003	0.002	1.379	1.849	2.071	0.032	5.292
1002	163.293																	
1003	163.129																	
1004	162.965																	
1005	162.803																	
1006	162.639																	
1007	162.475																	
1008	162.313																	
1009	162.149																	
1010	161.985																	
1011	161.823																	
1012	161.660																	
1013	161.496																	
1014	161.333	161	1667			1667	0.040	0.014			0.027			4.336			0.027	4.330
1015	161.170																	
1016	161.006																	
1017	160.843																	
1018	160.680																	
1019	160.516																	
1020	160.353																	
1021	160.190																	
1022	160.026																	
1023	159.863																	
1024	159.700																	
1025	159.536																	
1026	159.373																	
1027	159.210																	
1028	159.046																	
1029	158.883																	
1030	158.720																	
1031	158.557																	
1032	158.393																	
1033	158.230																	
1034	158.067																	
1035	157.903																	
1036	157.740																	
1037	157.577																	
1038	157.413																	
1039	157.250																	
1040	157.087																	
1041	156.923																	
1042	156.760																	
1043	156.597																	
1044	156.433																	
1045	156.270																	
1046	156.107																	
1047	155.943																	
1048	155.780																	
1049	155.617																	
1050	155.453																	
1051	155.290																	
1052	155.127																	
1053	154.964																	
1054	154.800																	
1055	154.637																	
1056	154.474																	
1057	154.310																	
1058	154.147																	
1059	153.984																	
1060	153.820	66	638	1200	1667	1667	0.030	0.016	0.021	0.022	0.023	0.003	0.001	1.536	1.627	0.026	0.027	4.092
1061	153.655																	
1062	153.491																	
1063	153.327																	
1064	153.163																	
1065	152.999																	
1066	152.835																	
1067	152.671																	
1068	152.507																	
1069	152.343																	
1070	152.179																	
1071	152.015																	
1072	151.851																	
1073	151.687	170	1667			1667	0.030	0.013			0.022			3.697			0.022	3.697
1074	151.523																	
1075	151.359																	
1076	151.195																	
1077	151.031																	
1078	150.867																	
1079	150.703																	
1080	150.539																	
1081	150.375																	
1082	150.211																	
1083	150.047																	
1084	149.883																	
1085	149.719																	
1086	149.555																	
1087	149.391	187	1667			1667	0.030	0.025			0.026			5.206			0.020	5.206
1088	149.227																	
1089	149.063																	
1090	148.899																	
1091	148.735																	
1092	148.571																	
1093	148.407																	

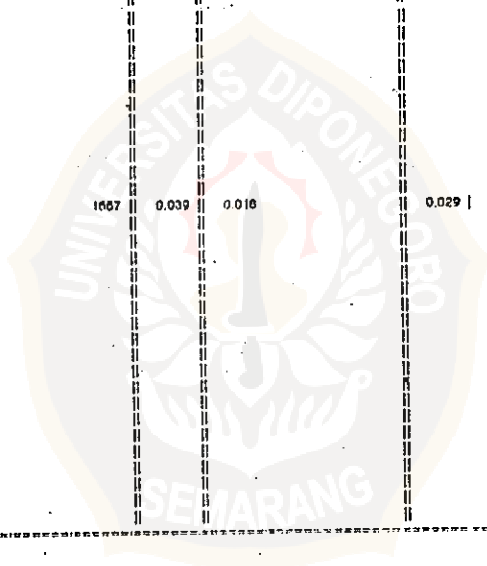
1094	195.784																			
1095	197.019																			
1096	198.253																			
1097	199.487																			
1098	200.721																			
1099	201.956																			
1100	203.190	203	1667		1667	0.030	0.016		0.023					4.739				0.023		4.739
1101	204.424																			
1102	205.658																			
1103	206.893																			
1104	208.127																			
1105	209.361																			
1106	210.595																			
1107	211.829																			
1108	213.064																			
1109	214.298																			
1110	215.532																			
1111	216.766																			
1112	218.001	63	580	1000	1667	1667	0.037	0.014	0.017	0.024	0.023	0.002	0.004	1.450	1.004	3.760	0.028	6.213		
1113	219.732																			
1114	221.464																			
1115	223.196																			
1116	224.927																			
1117	226.659																			
1118	228.390																			
1119	230.122																			
1120	231.854																			
1121	233.585																			
1122	235.317																			
1123	237.049																			
1124	238.780																			
1125	240.512	241	1667		1667	0.032	0.017		0.024					5.853				0.024	5.863	
1126	242.243																			
1127	243.975																			
1128	245.707																			
1129	247.438																			
1130	249.170																			
1131	250.902																			
1132	252.633																			
1133	254.365																			
1134	256.097																			
1135	257.829																			
1136	259.560																			
1137	261.291	261	1667		1667	0.032	0.022		0.027					7.043				0.027	7.043	
1138	263.023																			
1139	264.755																			
1140	266.486																			
1141	268.218																			
1142	269.950																			
1143	271.681																			
1144	273.413																			
1145	275.144																			
1146	276.876																			
1147	278.608																			
1148	280.339																			
1149	282.071																			
1150	283.803	284	1667		1667	0.032	0.020		0.026					7.452				0.026	7.452	
1151	285.534																			
1152	287.266																			
1153	288.998																			
1154	290.729																			
1155	292.461																			
1156	294.192																			
1157	295.924																			
1158	297.656																			
1159	299.387																			
1160	301.119																			
1161	302.851																			
1162	304.582	71	600	1200	1667	1622	0.028	0.011	0.017	0.023	0.019	0.003	0.004	1.302	2.007	4.771	0.027	8.160		
1163	304.582																			
1164	304.582																			
1165	304.582																			
1166	304.582																			
1167	304.582																			
1168	304.582																			
1169	304.582																			
1170	304.582																			
1171	304.582																			
1172	304.582																			
1173	304.582																			
1174	304.582																			
1175	304.582	305	1570		1622	0.028	0.020		0.025					7.476				0.025	7.476	
1176	304.582																			
1177	304.582																			
1178	304.582																			
1179	304.582																			
1180	304.582																			
1181	304.582																			
1182	304.582																			
1183	304.582																			
1184	304.582																			
1185	304.582																			
1186	304.582																			
1187	304.582	305	1570		1622	0.028	0.022		0.026					7.787				0.026	7.787	
1188	304.582																			
1189	304.582																			
1190	304.582																			
1191	304.582																			

(MULTI-LAYER)

LINE : 03WNJ - 32

[SP.NO]	Vw	V1	V2	V3	V4	Vsw	Tcharge	T1	T2(s)	T3(s)	Tw1(s)	Tw2(s)	Tw3(s)	Dw1(m)	Dw2(m)	Dw3(m)	STw(s)	SDw(m)
1001	127.006																	
1002	127.006																	
1003	127.006																	
1004	127.006	52	628	1071	1667	1622	0.036	0.018	0.024	0.026	0.020	0.003	0.001	1.475	1.597	1.040	0.032	4.112
1005	127.122																	
1006	127.239																	
1007	127.355																	
1008	127.472																	
1009	127.588																	
1010	127.705																	
1011	127.821																	
1012	127.938																	
1013	128.054																	
1014	128.171																	
1015	128.287																	
1016	128.403																	
1017	128.520	129	1579			1622	0.035	0.019			0.020			3.705			0.020	3.705
1018	128.636																	
1019	128.753																	
1020	128.869																	
1021	128.986																	
1022	129.102																	
1023	129.219																	
1024	129.335																	
1025	129.452																	
1026	129.568																	
1027	129.685																	
1028	129.801																	
1029	129.918																	
1030	130.034	130	1667			1657	0.038	0.021			0.030			3.878			0.030	3.878
1031	130.151																	
1032	130.267																	
1033	130.384																	
1034	130.500																	
1035	130.617																	
1036	130.733																	
1037	130.850																	
1038	130.966																	
1039	131.082																	
1040	131.199																	
1041	131.315																	
1042	131.432																	
1043	131.548	132	1667			1657	0.038	0.021			0.030			3.923			0.030	3.923
1044	131.665																	
1045	131.781																	
1046	131.898																	
1047	132.014																	
1048	132.131																	
1049	132.247																	
1050	132.364	50	526	1000	1667	1622	0.040	0.020	0.020	0.025	0.030	0.000	0.003	1.494	0.094	2.780	0.033	4.349
1051	132.480																	
1052	132.406																	
1053	132.331																	
1054	132.257																	
1055	132.182																	
1056	132.108																	
1057	132.033																	
1058	131.958																	
1059	131.884																	
1060	131.809																	
1061	131.735																	
1062	131.660																	
1063	131.586																	
1064	131.511	132	1579			1622	0.040	0.021			0.030			3.992			0.030	3.992
1065	131.437																	
1066	131.362																	
1067	131.288																	
1068	131.213																	
1069	131.139																	
1070	131.064																	
1071	130.989																	
1072	130.915																	
1073	130.840																	
1074	130.766																	
1075	130.691																	
1076	130.617	131	1667			1622	0.040	0.023			0.032			4.127			0.032	4.127
1077	130.542																	
1078	130.468																	
1079	130.393																	
1080	130.319																	
1081	130.244																	
1082	130.170																	
1083	130.095																	
1084	130.021																	
1085	129.946																	
1086	129.871																	
1087	129.797																	
1088	129.722																	
1089	129.648	130	1579			1622	0.040	0.019			0.030			3.838			0.030	3.838
1090	129.573																	
1091	129.499																	
1092	129.424																	

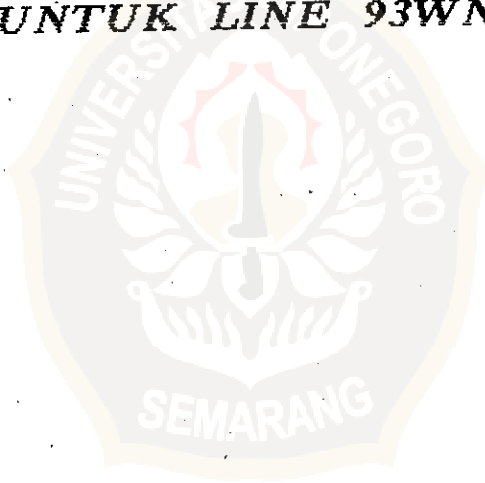
1093	120.350																		
1094	120.275																		
1095	120.201																		
1096	120.126																		
1097	120.052																		
1098	120.077																		
1099	120.002																		
1100	120.078																		
1101	120.753																		
1102	120.079																		
1103	120.004																		
1104	120.530																		
1105	120.455																		
1106	120.381																		
1107	120.306																		
1108	120.232																		
1109	120.157																		
1110	120.083	51	384	1034	1667	1667	0.039	0.014	0.017	0.020	0.027	0.002	0.002	1.356	0.840	1.853	0.030	3.840	
1111	120.083																		
1112	120.083																		
1113	120.083																		
1114	120.083																		
1115	120.083																		
1116	120.083																		
1117	120.083																		
1118	120.083																		
1119	120.083																		
1120	120.083																		
1121	120.083																		
1122	120.083																		
1123	120.083	120	1667			1667	0.039	0.023			0.031			3.964			0.031	3.964	
1124	120.083																		
1125	120.083																		
1126	120.083																		
1127	120.083																		
1128	120.083																		
1129	120.083																		
1130	120.083																		
1131	120.083																		
1132	120.083																		
1133	120.083																		
1134	120.083																		
1135	120.083	120	1667			1667	0.039	0.025			0.032			4.093			0.032	4.093	
1136	120.083																		
1137	120.083																		
1138	120.083																		
1139	120.083																		
1140	120.083																		
1141	120.083																		
1142	120.083																		
1143	120.083																		
1144	120.083																		
1145	120.083																		
1146	120.083																		
1147	120.083																		
1148	120.083	120	1667			1667	0.039	0.016			0.029			3.673			0.029	3.673	
1149	120.083																		
1150	120.083																		
1151	120.083																		
1152	120.083																		
1153	120.083																		
1154	120.083																		
1155	120.083																		
1156	120.083																		
1157	120.083																		
1158	120.083																		
1159	120.083																		
1160	120.083																		
1161	120.083																		
1162	120.083																		
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1165	120.083																		
1166	120.083																		
1167	120.083																		



LAMPIRAN D

DATA LAPANGAN

SURVEY WEATHERING ZONE DAN SURVEY REFRAKSI UNTUK LINE 93W NJ-07



RISK DATA : ID NO. 161
 DATE, TIME : 00 10 93 09:17:05 AM
 CHANNEL NO. : 24 [channel]
 WORD LENGTH : 1024 [word]
 SAMPLE TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]
 LOW CUT FILTER : 10 [Hz]
 HIGH CUT FILTER : 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 No. of STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [db] : 0 0 0 0 0 5 5 12 12 12 10 10

Line : 93WNJ-07

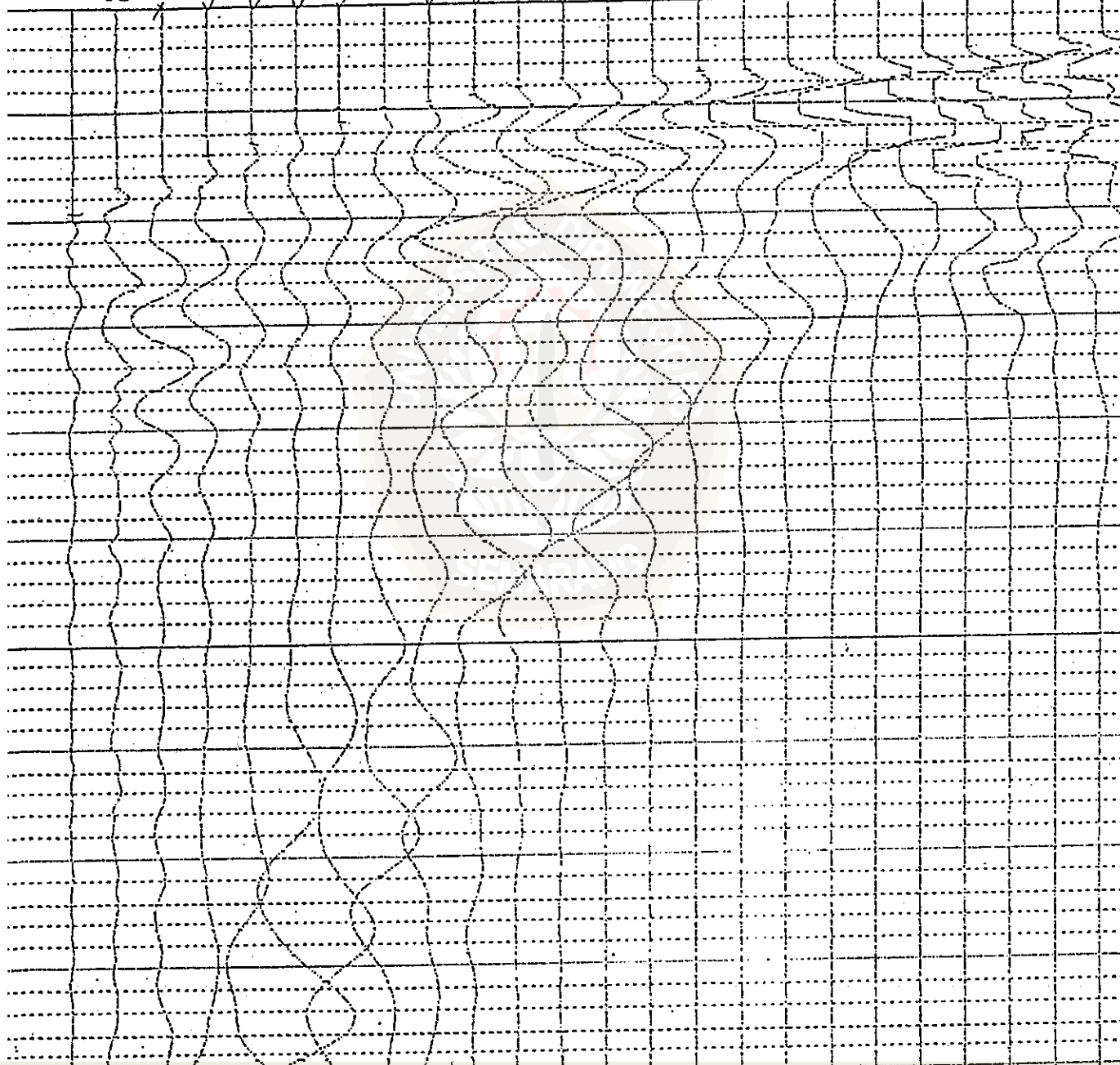
SP 1031 WZ

CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 No. of STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [db] : 10 24 24 24 30 30 30 35 35 35 42 42

RACE SIZE : Compression rate AUTO

TIME SCALE : 0.0 [milli second/line]

80 24 68 64 56 52 48 44 40 38 34 33 32 31 30 29 28 26 25 24 23 21 20 17 16



CHANNEL NO. : 24 [channel]
 SD LENGTH : 1024 [words]
 TRIPLE TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]

Line 93WNJ-07

H CUT FILTER : 10 [Hz]
 SH CUT FILTER : 140 [Hz]

SP-1031 REF

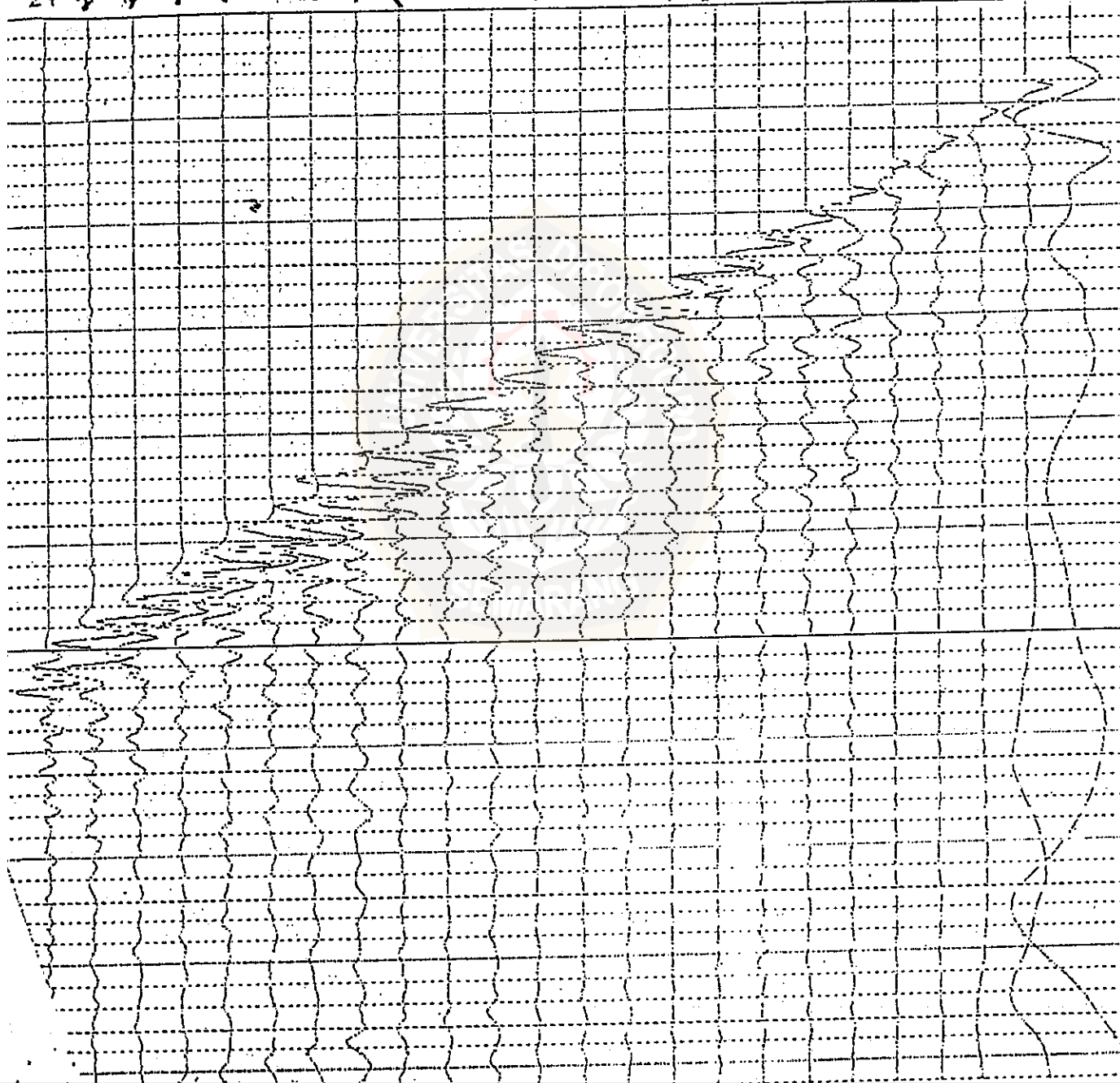
CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 NO OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 IN [db] : 6 10 24 30 30 36 36 36 42 42 42 45

CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 NO OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 IN [db] : 40 40 54 54 54 60 60 60 60 60 66 66

ACC SIZE : Compression rate AUTO

TIME SCALE : 3.0 [milli second/line]

232 224 214 202 190 184 174 164 158 150 138 134 124 116 106 98 88 80 70 60 50 40 32 24 1

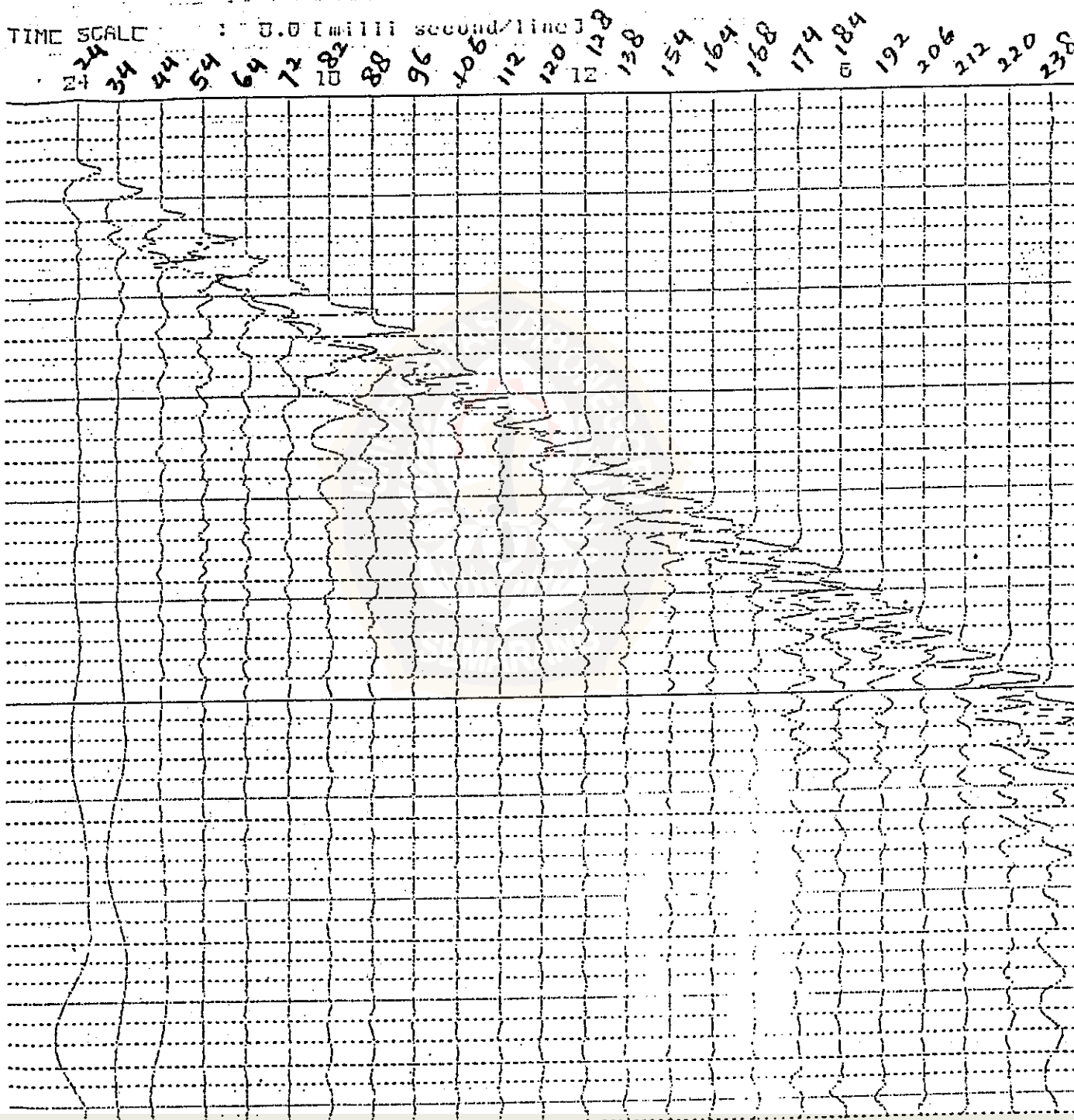


CHANNEL NO. : 24 [channel]
 WORD LENGTH : 1024 [word]
 SAMPLE TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]
 LOW CUT FILTER : 10 [Hz]
 HIGH CUT FILTER : 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 No. of STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [dB] : 66 66 60 60 60 60 54 54 54 40 40

CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 No. of STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [dB] : 40 42 42 42 36 36 36 30 30 24 18 6

TRACE SIZE : Compression rate AUTO

TIME SCALE : 0.0 [milli second/line]



DATA : ID NO. 165
 TIME : 00.10.93 11:46:45 AM
 CHANNEL NO. : 24 [channel]
 LENGTH : 1024 [word]
 FILE TIME : 0.400 [milli second]
 GGER TIME : 20.000 [milli second]
 CUT FILTER : 10 [Hz]

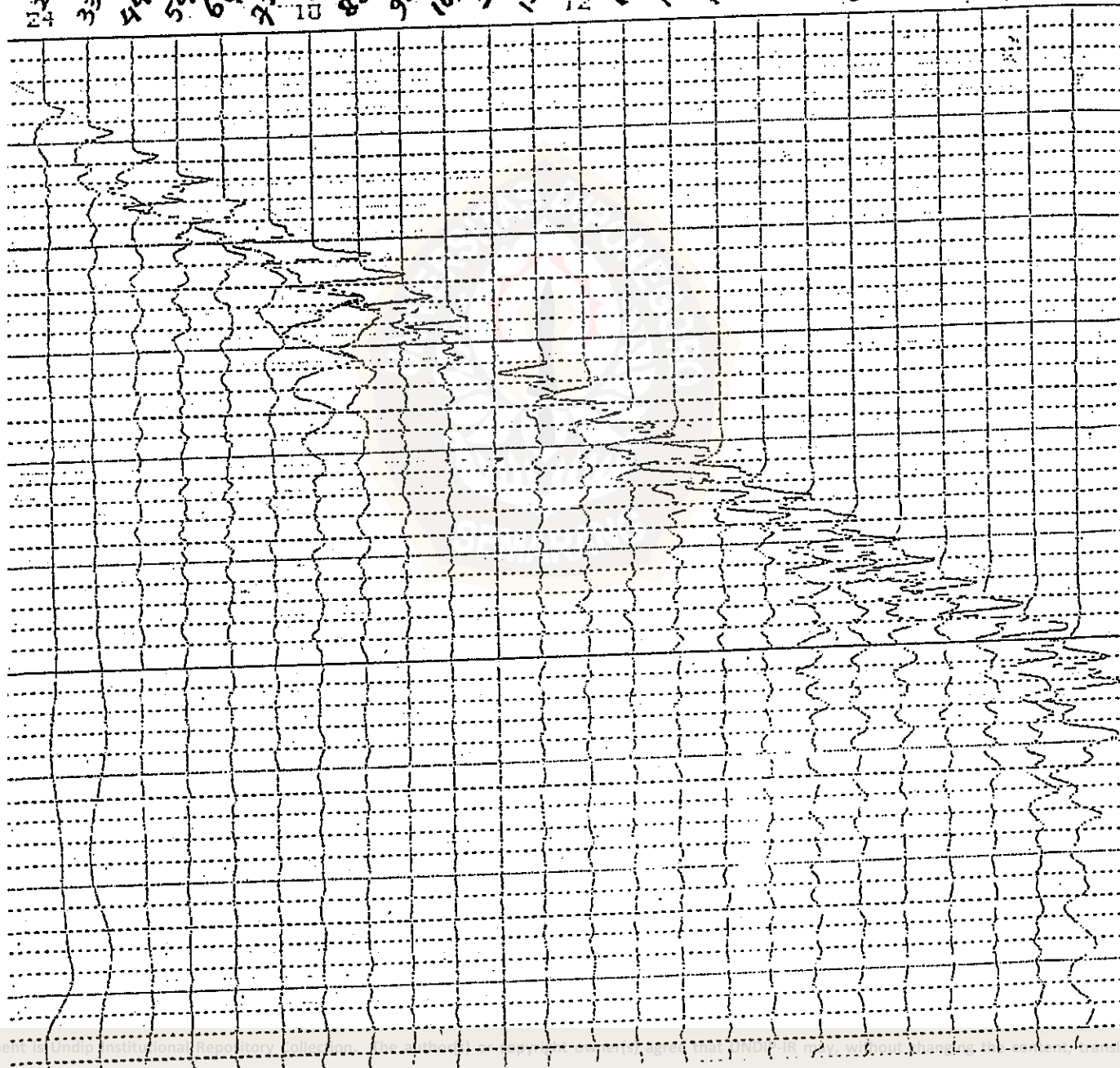
II CUT FILTER: 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 N [db]: 66 66 60 60 60 60 60 54 54 54 40 40

CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 N [db]: 40 42 42 42 36 36 36 30 30 24 10 6

CC SIZE : Compression rate AUTO

IC SCALE : 0.0 [milli second/line]

24 33 44 54 64 72 81 88 96 104 / 120 128 136 144 154 161 174 184 192 206 212 222 232 1



SK DATA : ID NO. 164
 EC TIME : 00 10 93 11:21:25 AM
 CHANNEL NO. : 24 [channel]
 SD LENGTH : 1024 [word]
 TRFC TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]
 A CUT FILTER : 10 [Hz]
 SH CUT FILTER : 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 IN [db] : 6 10 24 30 30 36 36 36 42 42 42 40
 CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 IN [db] : 40 40 54 54 54 60 60 60 60 60 66 66

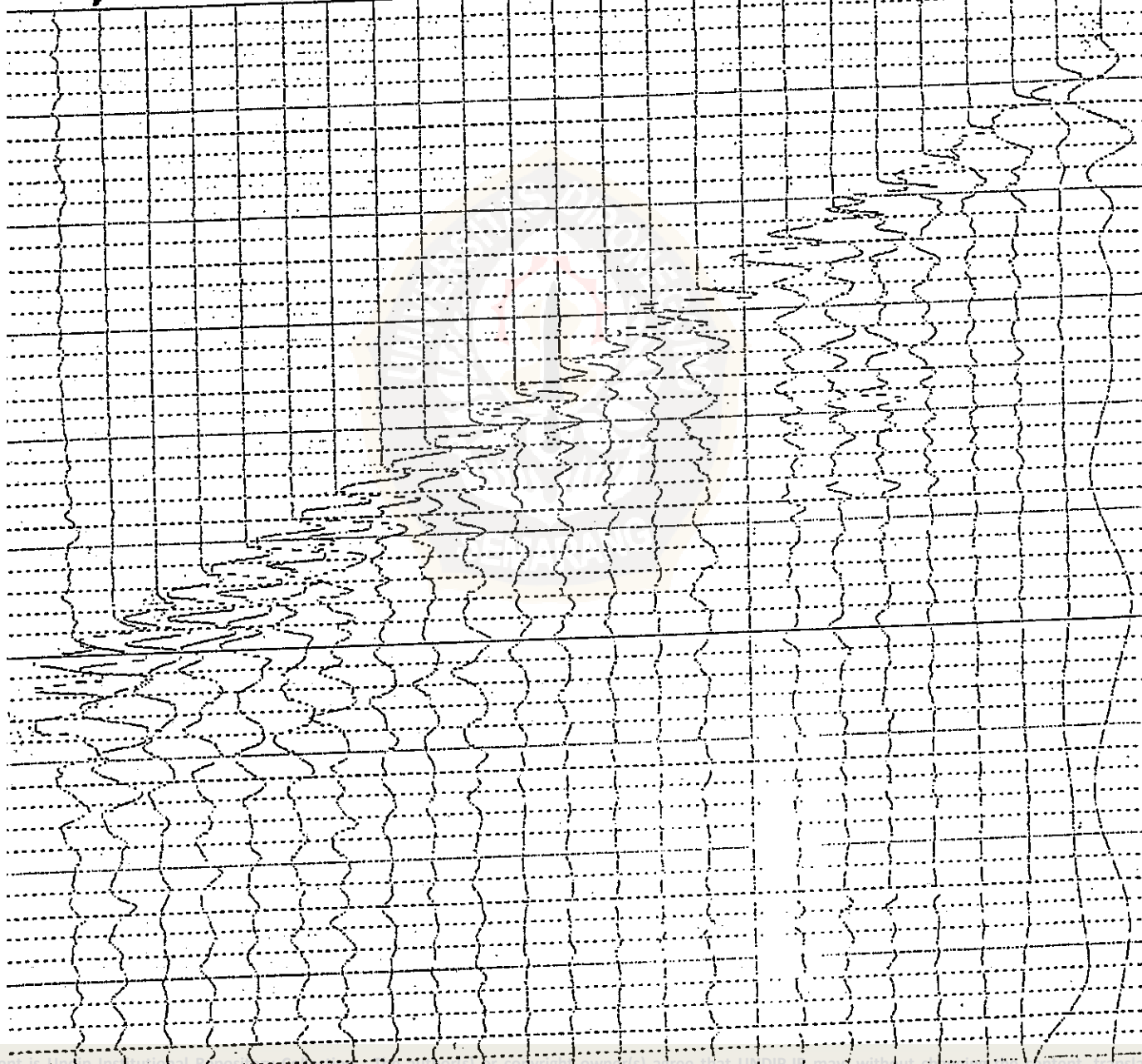
Line 93WNJ-07

SP 1069 REF

ACE SIZE : Compression Rate AUTO

MC SCALE : 0.0 [milli second/line]

24 226 218 208 202 192 184 174 164 158 148 138 129 120 112 94 84 74 64 56 44 34 26 1



DISK DATA : ID NO. 166
 DATE, TIME : 08 10 93 , 01:47:29 PM
 CHANNEL NO. : 24 [channel]
 WORD LENGTH : 1024 [word]
 SAMPLE TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]

Line 93WNJ-07

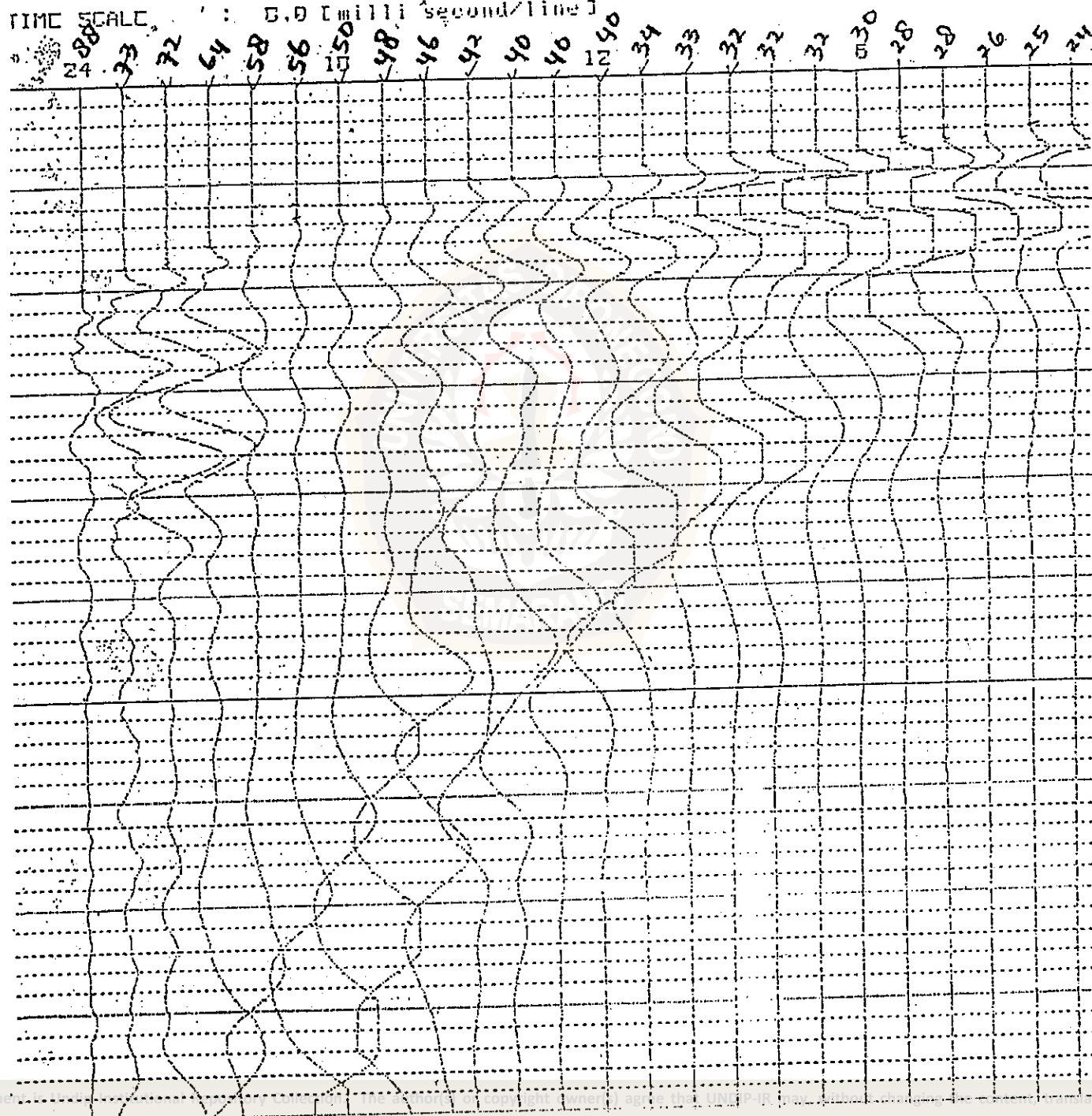
SP 1081 WZ

LOW CUT FILTER : 10 [Hz]
 HIGH CUT FILTER : 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 No. of STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [dB] : 0 0 0 6 12 12 12 10 10 10 24 24

CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 No. of STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [dB] : 24 30 30 30 36 36 36 42 42 42 40 40

TRACE SIZE : Compression rate AUTO

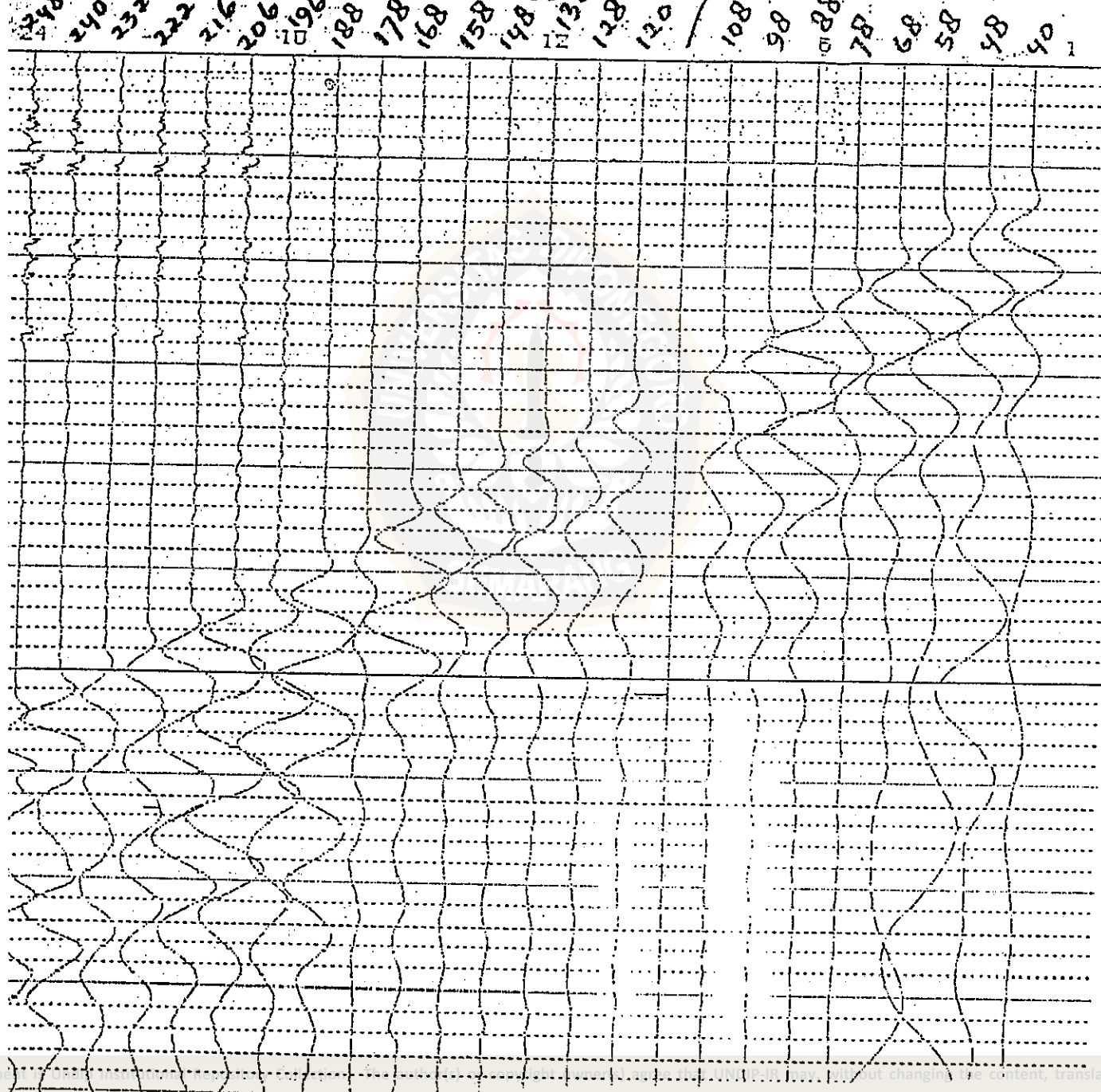
TIME SCALE : 5.0 [milli second/line]



SK DATA : ID NO: 167
 TC TIME : 00 10 93 , 02:30:59 PM
 CHANNEL NO. : 24 [Channel]
 SD LENGTH : 1024 [word]
 WPLC TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]
 1ST CUT FILTER : 10 [Hz]
 50 HZ CUT FILTER: 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 NO OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 N [db]: 6 10 24 30 30 36 36 36 42 42 42 40
 CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 NO OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 N [db]: 40 40 54 54 54 60 60 60 60 60 66 66

GC SIZE : Compression rate AUTO

SC SCALE : 0.0 [milli second/line]



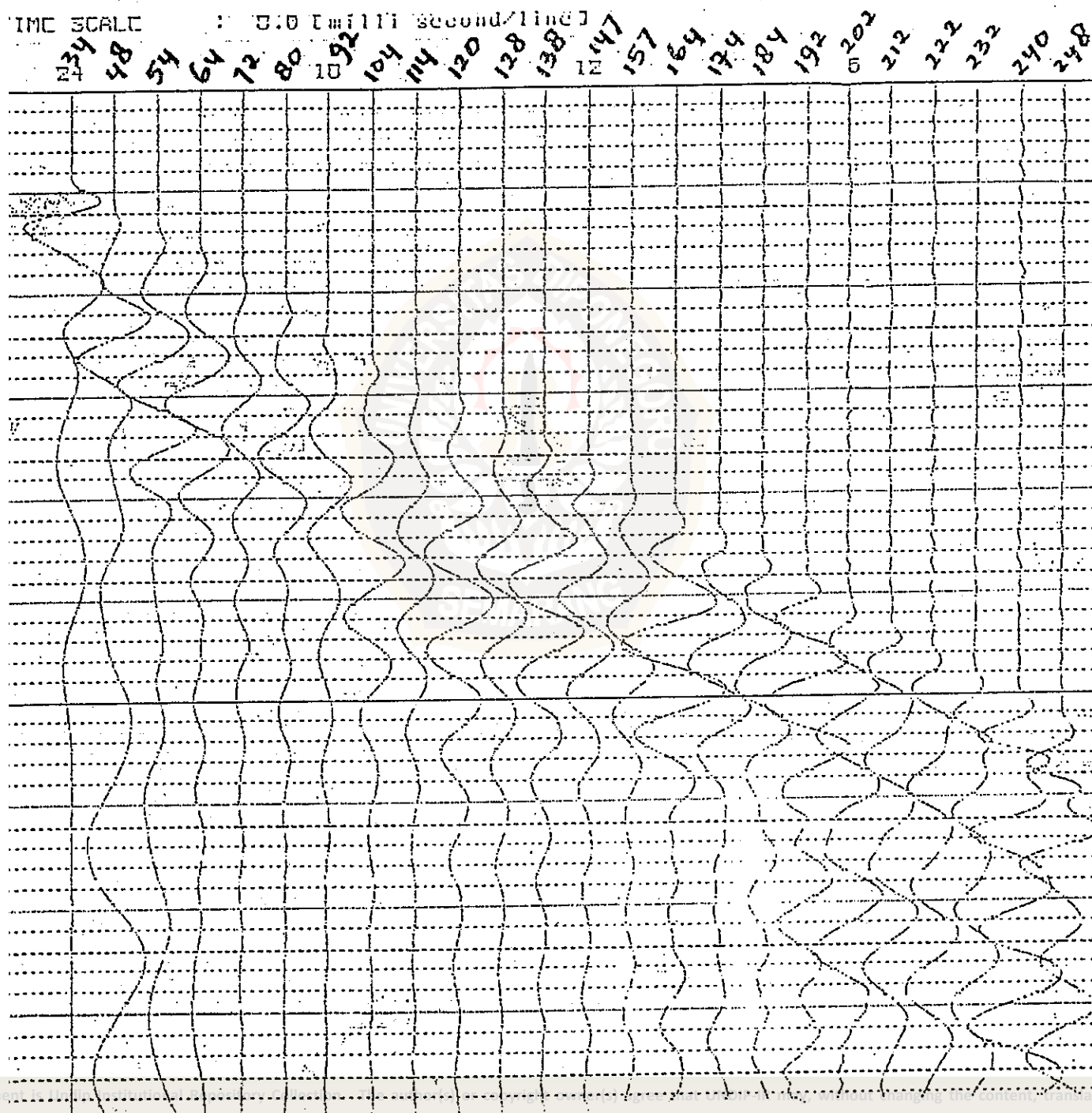
TASK DATA : ID NO. 160
 DATE, TIME : 00 10 93 02:51:32 PM
 CHANNEL NO. : 24 [channel]
 WORD LENGTH : 1024 [word]
 SAMPLE TIME : 0.400 [milli second]
 TRIGGER TIME : 20.000 [milli second]
 LOW CUT FILTER : 10 [Hz]
 HIGH CUT FILTER : 140 [Hz]
 CHANNEL NO. : 1 2 3 4 5 6 7 8 9 10 11 12
 NO. OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [db]: 66 66 60 60 60 60 60 54 54 54 40 40
 CHANNEL NO. : 13 14 15 16 17 18 19 20 21 22 23 24
 NO. OF STACKS : 1 1 1 1 1 1 1 1 1 1 1 1
 GAIN [db]: 40 42 42 42 35 35 35 30 30 24 15 5

Line 93WNJ-07

SP 1094 REF

RACE SIZE : Compression rate AUTO

TIME SCALE : 0.0 [milli second/line]



LAMPIRAN E

T - X CURVE UNTUK LINE 93WNIJ-07



